BULK BREWING COFFEE MACHINE
METOS COMBI

CB

TYPE: 5, 1x5R, 1x5L, 2x5, 10, 1x10R, 1x10L, 2x10, 20, 1x20R, 1x20L, 2x20

User Manual

S/N: Rev.: 2.2

Dear Customer,

Congratulations on deciding to choose a Metos appliance for your kitchen activities. You made an excellent choice. We will do our best to make you a satisfied Metos customer like thousands of customers we have around the world.

Please read this manual carefully. You will learn correct, safe and efficient working methods in order to get the best possible benefit from the appliance. The instructions and hints in this manual will give you a quick and easy start, and you will soon note how nice it is to use the Metos equipment.

All rights are reserved for technical changes.

You will find the main technical data on the rating plate fixed to the equipment. When you need service or technical help, please let us know the serial number shown on the rating plate. This will make it easier to provide you with correct service.

For your convenience, space is provided below for you to record your local Metos service contact information.

METOS TEAM

Metos service phone number:.....

Contact person:.....

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1. General

Carefully read the instructions in this manual as they contain important information regarding proper, efficient and safe installation, use and maintenance of the appliance.

Keep this manual in a safe place for eventual use by other operators of the appliance.

The installation of this appliance must be carried out in accordance with the manufacturer's instructions and following local regulations. The connection of the appliance to the electric and water supply must be carried out by qualified persons only.

Persons using this appliance should be specifically trained in its operation.

Switch off the appliance in the case of failure or malfunction. The periodical function checks requested in the manual must be carried out according to the instructions. Have the appliance serviced by a technically qualified person authorized by the manufacturer and using original spare parts.

Not complying with the above may put the safety of the appliance in danger.

1.1 Symbols used in the manual

This symbol informs about a situation where a safety risk might be at hand. Given instructions are mandatory in order to prevent injury.

This symbol informs about the right way to perform in order to prevent bad results, appliance damage or hazardous situations.

This symbol informs about recommendations and hints that help to get the best performance out of the appliance.

This symbol informs about a function that has to be taken into account in self-control.

1.2 Symbols used on the appliance

This symbol on a part informs about electrical terminals behind the part. The removal of the part must be carried out by qualified persons only.

1.3 Checking the relationship of the appliance and the manual

The rating plate of the appliance indicates the serial number of the appliance. If the manuals are missing, it is possible to order new ones from the manufacturer or the local representative. When ordering new manuals it is essential to quote the serial number shown on the rating plate.

2. Safety

2.1 Warnings

2.1.1 Installation

- Place the appliance at buffet height and on a firm, level base, in such a way that it can be connected to the water supply and power supply.
- Connect the appliance to an earthed wall socket.
- Position the appliance in such a way that no damage can be caused if it leaks.
- Do not tilt the appliance, always position and move the appliance upright.
- Connect an overflow pipe to the drainage tube.
- Water always remains in the heating system: for this reason the appliance must not be placed in an area where the temperature can fall below freezing point.
- When installing the appliance, always observe the local rules and use approved materials and parts.
- The Installation chapter must again be followed when repositioning the appliance.
- Connect the appliance to the cold water mains.

2.1.2 Use

- Inspect the appliance before using it and check it for damage.
- Never submerge or spray the appliance.
- Do not press the buttons with a sharp object.
- Protect the controls against dirt and grease.
- During use some parts will become very hot.
- Do not position the container on open fire, or hot plate.
- First disconnect the electric cable before transporting the container.
- It is advisable to take the plug out of the socket and close the water tap if the appliance is not going to be used for longer periods of time

2.1.3 Maintenance and troubleshooting

- Observe the descaling intervals indicated by the descaling indicator symbol.
- Overdue maintenance to the heating system can result in high repair costs and annulment of the guarantee.
- Do not leave the appliance unattended when maintenance is being performed.

- When descaling the appliance, it is advisable to wear safety glasses and protective gloves.
- Wash your hands after descaling.
- Have all repairs carried out by a qualified technician.
- The plug must be taken out of the socket if the appliance has to be opened for cleaning or repairs.

2.2 Safeguards

The appliance is fitted with the following safe guards

2.2.1 On/off switch

The on/off switch is used to switch the appliance on and off. Remember that the appliance can still be live after being switched off! For this reason you should always remove the plug from the socket to render the appliance voltage-free.

2.2.2 STOP button

The coffee making process can be interrupted at any point using the STOP button located on the control panel.

2.2.3 Swivel arm and container detection

This appliance is equipped with a safety device through which it is only possible to start the brewing process if the swivel arm and container are in the correct position. If the swivel arm and/or container are moved out of position during the brewing process, the brewing process is interrupted, a swivel arm and/or container symbol appears in the display and there is a sound signal (2x short). Once the positioning fault has been resolved the brewing process can be restored by pressing the START button.

2.2.4 Dry-boil protection

This appliance is equipped with a dry-boil protection. This protection triggers if the heating elements overheat owing to a fault. Once the fault has been resolved, the dry-boil protection can be reset at the outside of the appliance. The most common cause of the dry-boil protection being triggered is not descaling the heating system in time.

2.2.5 Warning indication display

A technical fault is reported by displaying an error code in the display. The relevant problem can be localised and resolved with the help of this code. In this case see chapter 13-Troubleshooting.

2.3 Disposal of the appliance

No appliance lasts forever. When the time comes to discard your appliance it will usually be possible to return it to your dealer. If this is not the case, ask your municipal council about the alternatives for recycling the materials. All plastic parts have been given standard codes. The parts of the appliance such as the printed circuit board and accompanying parts form electrical and electronic waste. The metal body is made of stainless steel and can be completely dismantled.

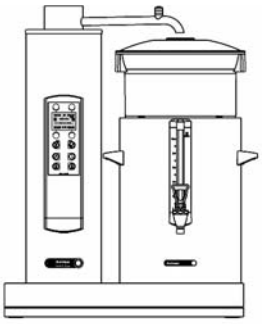
3. Functional description

3.1 General

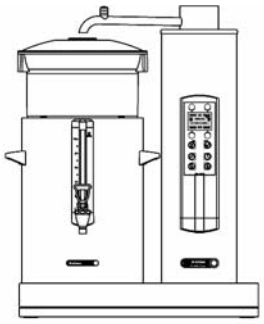
The ComBi-line 5 - 20 is a professional coffee maker, equipped with a continuous flow heater. It is very easy to use. The user can choose from a number of fixed set amounts via a control panel with a graphic display which also offers information about the current process of the appliance. Specific requirements and wishes concerning brewing quantity, etc. can be accessed and programmed by the operator via a PIN. The operator also has the possibility of reading counters and activating a descaling program.

3.2 Models

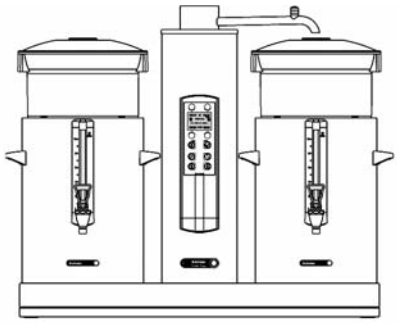
This manual covers the following coffeemakers of the ComBi-line range:



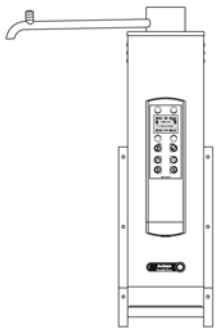
CB 1x5/10/20 R



CB 1x5/10/20 L



CB 2x5/10/20



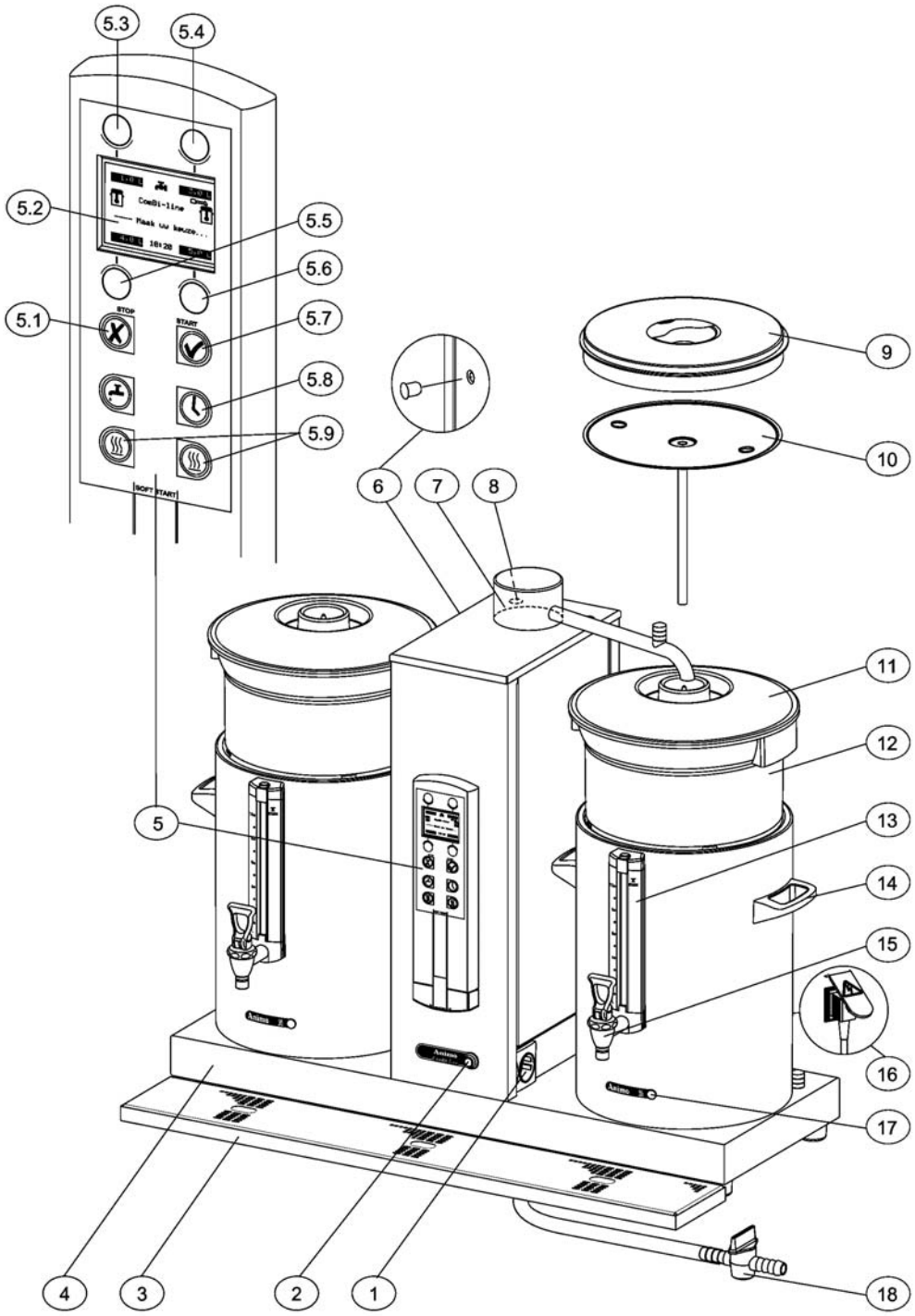
CB 5/10/20

3.3 Application of the appliance

3.3.1 Prohibited use/Use for other purposes

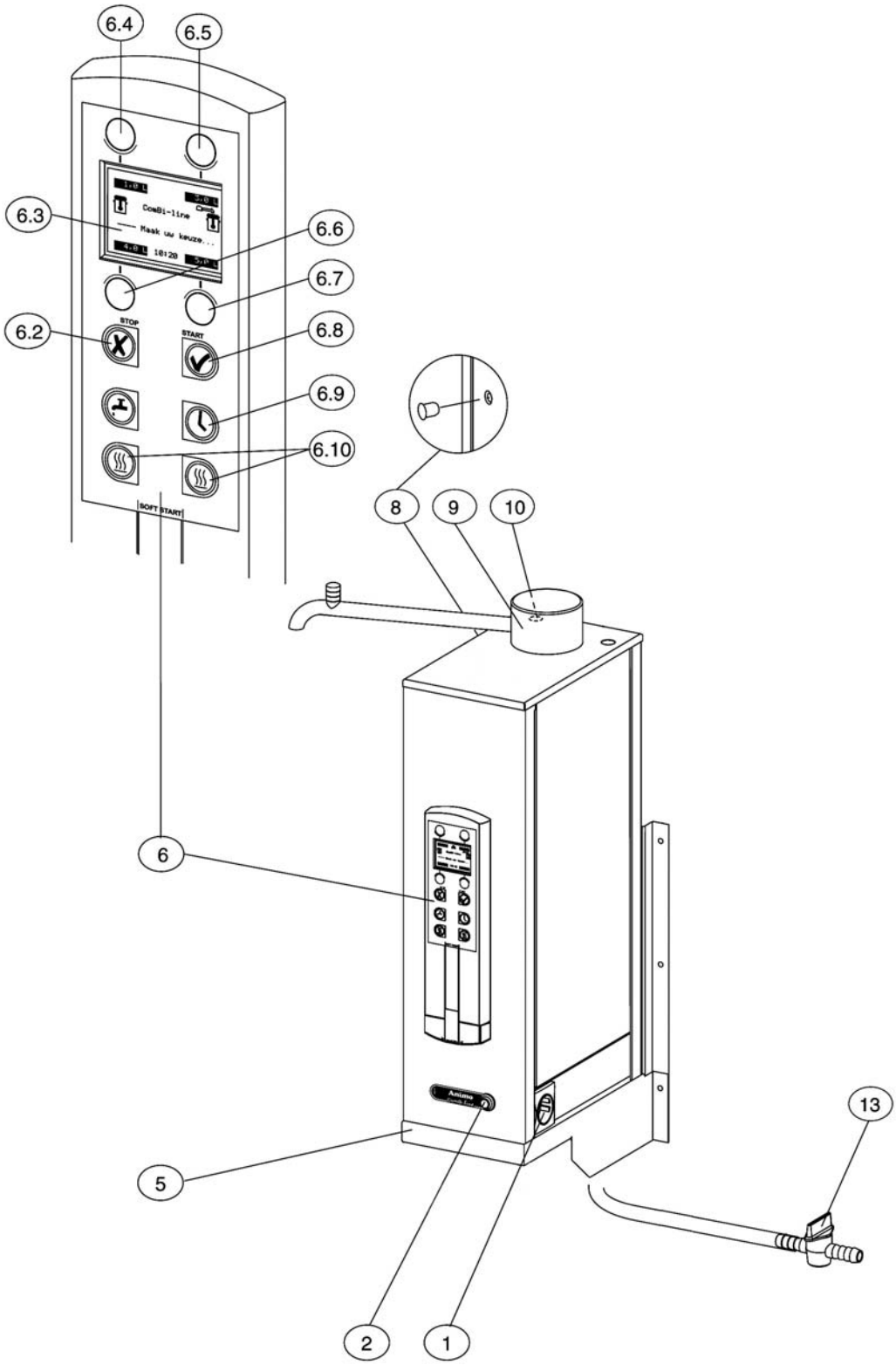
This machine can only be used for brewing and distributing coffee and/or tea. The use of the appliance for other purposes is not permitted and may be hazardous. The manufacturer cannot be held liable for losses caused by using the appliance for purposes other than those indicated here or by incorrect use.

3.4 Construction [1x5, 1x10, 1x20, 2x5, 2x10, 2x20]



1. Socket L/R for container heating
2. ON/OFF switch coffee system
3. Drip tray with grid
4. Base plate
5. Control panel
   - 5.1 STOP button / Back button (without changing)
   - 5.2 Illuminated display
   - 5.3 Selection button brew volume 1
   - 5.4 Selection button brew volume 2
   - 5.5 Selection button brew volume 3
   - 5.6 Selection button brew volume 4
   - 5.7 START button / Accept button (save)
   - 5.8 Timer button
   - 5.9 On/Off button container heating L/R
6. Dry-boil protection
7. Swivel arm
8. Descale filling opening coffee brewing system
9. Insulated lid
10. Blender - transport disk
11. Water distributor lid
12. Basket filter
13. Integrated gauge glass
14. Handle
15. Coffee tap
16. Socket with splash protection
17. Pilot light
18. Drain hose coffee brewing system

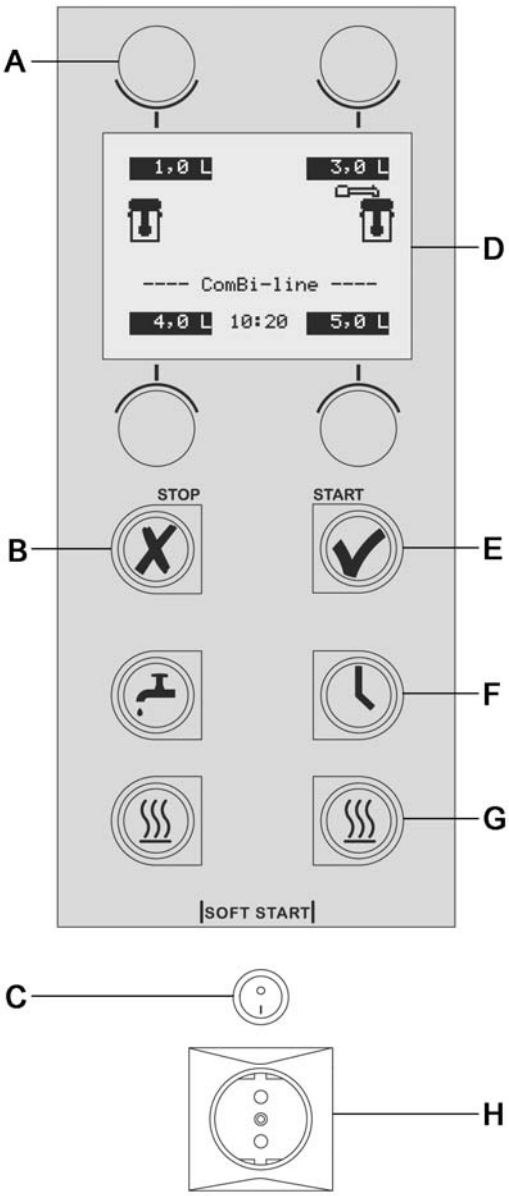
3.5 Construction [5, 10, 20]



1. Socket L/R for container heating
2. ON/OFF switch coffee system
5. Wall bracket
6. Control panel
   - 6.2 STOP button / Back button (without changing)
   - 6.3 Illuminated display
   - 6.4 Selection button brew volume 1
   - 6.5 Selection button brew volume 2
   - 6.6 Selection button brew volume 3
   - 6.7 Selection button brew volume 4
   - 6.8 START button / Accept button (save)
   - 6.9 Timer button
   - 6.10 On/Off button container heating L/R
8. Dry boil protection coffee brewing system
9. Swivel arm
10. Descale filling coffee brewing system
13. Drain hose coffee brewing system

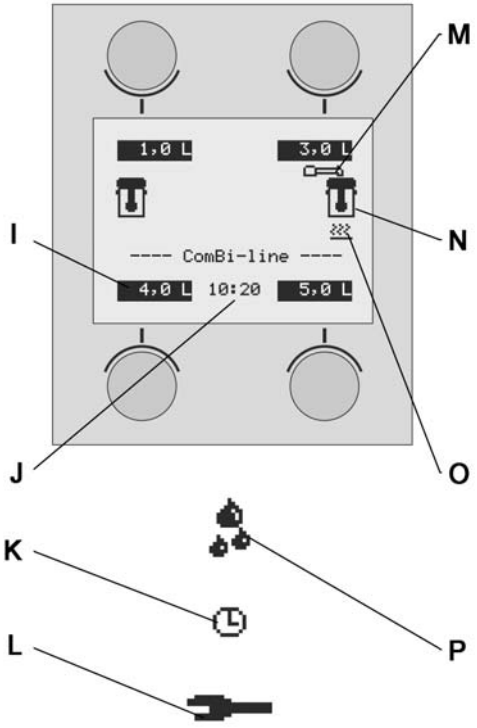
3.6 Operating switches and indicator lights [5, 10, 20, 1x5, 1x10, 1x20, 2x5, 2x10, 2x20]

A		Selection buttons (4x) The selection buttons are used to select the standard brewing amount. The chosen amount confirmed using the display and can be increased or decreased using the same selection buttons, as required.
B		STOP buttonUse the STOP button to cancel a selection or to (emergency) stop a process. An emergency stop results in the process being lost,so it must be executed again. This button can also be used as a cancellation button if theoperator menu is activated.
C		On/Off-switchThis switch is used to turn the coffee making system ON (I) or OFF (0).
D		DisplayThe display informs the user about the status of the most important functions of the appliance.
E		START buttonUse the START button to start a brewing process. First choose the brewing amount with one of the selection buttons. This buttoncan also be used as a confirmation button if the operator menu is activated.
F		Timer buttonUse the timer button to program the brewing process for use at a later point of time.
G		Container heating buttons (2x)Use the container heating button to switch the power sockets that are on the side of the column ON/OFF. ATTENTION: Only usethe power sockets for the container heating, do not connect any other electrical appliances. (Maximum capacity 100W).
H		Power socket

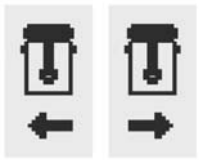
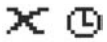


3.7 Display [5, 10, 20, 1x5, 1x10, 1x20, 2x5, 2x10, 2x20]

I		Brew volume (4x)Each selection button (4x) displays a pre-programmed brewing amount. The amountscan be set completely as required via the settings menu.
J		ClockReal time indicator
K		Timer; (flashing)The timer function is activated.
L		Scale indicatorOne of the systems must be descaled at the first opportunity. Look up 'descaling' in theoperator menu.
M		Swivel arm in positionThe swivel arm is in the correct position above a filter. If the swivel arm is moved away the symbol disappears from the display.
N		Container in positionThe coffee container with filter unit is in the correct position. If the container is taken away the symbol disappears from the display.
O		Container heatingThe heating of the coffee container is switched on. If the heating is switched offthe symbol disappears from the display.
P		Leaking outThe dripping symbol is displayed if the hot water dosing is stopped and the filter unit is leaking.



3.8 Error reporting symbols

	Container position failureThis symbol appears in the display if the coffee container gets out of position during a brewing process. The arrow shows on which side the problem occurs.
	Swivel arm not in positionThis symbol appears in the display if the swivel arm gets out of position during a making process. The arrow shows on which side the problem occurs.
	Swivel arm not in position for new brewing process This symbol appears in the display if a brewing process is started and there is (still) no swivel arm in position above the filter unit.
	Press START buttonThis symbol appears after the swivel arm and/or container fault has been resolved. For your own safety the start button must always be pressed again. If this report is responded to within 10 minutes the brewing process will restart and be completed.
	If the START button is pressed only after 10 minutes, a cross symbol with a flashing clock appears in order to indicate that the brewing process can no longer be restored and should be considered lost.

4. Operation instructions

4.1 Before using the appliance

When used for the first time the appliance works according to the standard factory settings.

The various settings can be altered by trained, authorized personnel. See “Operator menu”.

This chapter will explain the coffee brewing and hot water system process.

- when the appliance is used for the first time.
- when the appliance has not been used for more than 1 week, for example after a holiday period.

4.1.1 Flushing the flow heater system

1. Open the water tap and check if the swivel connections are not leaking.
2. Put the cable with inlet plug into the back of the container and insert the plug into the socket of the flow water heater (fig. 1-1).
3. Check if the containers are positioned correctly, with a filter unit (still without coffee), and position the swivel arm above the centre of the filter.
4. Switch the appliance on by putting the ON/OFF switch (fig. 1-2) in position I, the display (fig. 1-5.2)lights up and you will hear a beeping sound. Then the display will indicate the standard choices.
5. Press selection button 2 (fig. 1-5.4) and confirm your choice by pressing the START button (fig. 1-5.7). The coffee system starts filling and the brewing process starts. In the display appears the text: BREWING. With the STOP button (fig.1-5.1) the brewing process can be interrupted at any moment. When the watersupply stops coming out of the swivel arm, you will hear a beeping sound (1x short). In the display appears the text: LEAKING. The leaking time is set as standard to approx. 5 minutes, and its ending is indicated by a beeping sound (3x short).
6. Empty the container with the drainage tap (fig. 1-15).
7. Position the swivel arm above the other filter and follow the above procedure once again if the model is equipped with two containers.
8. Once the container is empty the coffee maker is ready for use.

4.1.2 First settings operator menu

The following details are set in the operator menu immediately after being used for the first time. Please note: The default language setting is English. To gain access to the operator menu system settings see chapter “The operator menu”.

System settings (Systeminstellungen) (menu 2)

2.0 Language

2.1 Time

2.2 Date

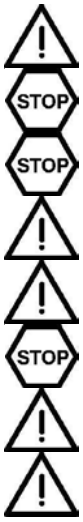
Coffee settings (menu 3)

3.9 Descale indicator

3.10 Coffee dosing

4.2 Operation procedures

This chapter describes the daily use of the appliance by partly qualified personnel. When the machine is used for the first time, it works in accordance with the standard factory settings. The different settings can be changed later by trained, qualified personnel. See “The operator menu” for more details.



Inspect the appliance before using it and check it for damage.

Never submerge or spray the appliance.

Do not press the buttons with a sharp object.

Protect the controls against dirt and grease.

During use some parts will become very hot.

Do not position the container on open fire or on a hotplate.

First disconnect the electric cable before transporting the container.

It is advisable to take the plug out of the socket and close the water tap if the appliance is not going to be used for longer periods of time.

Preparations

- Put the cables with inlet plug into the back of the container and insert the plug into the socket of the flow water heater (fig. 1-1).
- The inner pot of the container must always be fresh and clean.
- Place the coffee blender into the container. The blender guarantees a uniform quality of the coffee, which makes stirring the coffee (with loss of time, temperature and aroma) unnecessary. The temperature of the coffee is kept at a temperature of 80-85°C. The storage time of the coffee is determined by the blend of coffee and is usually 1 à 1,5 hours.

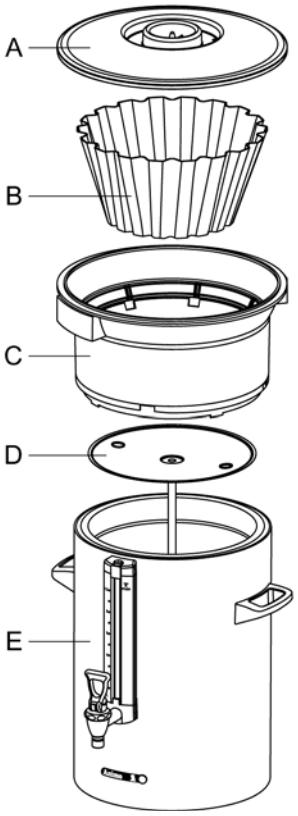
Basic rules for brewing coffee

- Use regular ground coffee (±50 gram/liter)
- Keep the inner pot, filter unit and the mixer clean.

Tip: always keep the basket filter paper in the original packing!

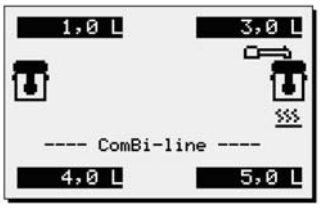
- This means the paper keeps its original (basket) shape.
- This prevents the paper from collapsing or not fitting in the filter.

A	Filter lid with water distributor
B	Basket filter paper
C	Basket filter
D	Blender
E	Insulated lid
F	Container



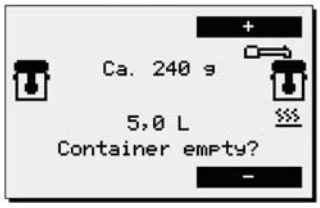
4.2.1 Brewing coffee

Switch on the appliance by putting the ON/OFF switch ( ) in position I, the display lights up and you will hear a beeping sound (1x short). Then the display indicates the standard brewing amounts.



Select one of the four brewing amounts.

The selected brewing amount including a recommended coffee dosage appears in the display. Tip: If you do not want the selected brewing amount, you can increase/decrease it with the + or - button. The recommended coffee dosage changes accordingly.



Place a basket filter paper in the basket filter and fill it with the recommended brewing amount of coffee (standard ground). Spread the coffee evenly in the filter and then put the filter lid on.

Place the filter unit on the container and position the swivel arm above the centre of the filter.

Press the START button ( ) to start the brewing process. In the display appears the text: Processing. The container heating switches on automatically, the heating should be switched off manually ( ) if the container is empty. During the coffee brewing process, the display shows the selected brewing amount (below) and the amount of water already gone through the filter (above).

When the water supply stops coming out of the swivel arm you will hear a beeping sound (1x short). In the display appears the text: Leaking out. The leak out time is set as standard to approx. 5 minutes, and its ending is indicated by a beeping sound (3x short).

Remove the synthetic filter after it has been used and put the insulated lid on the container.

Clean the synthetic filter.

After the brewing process you can draw off a cup of coffee by using the no-drip tap on the container.

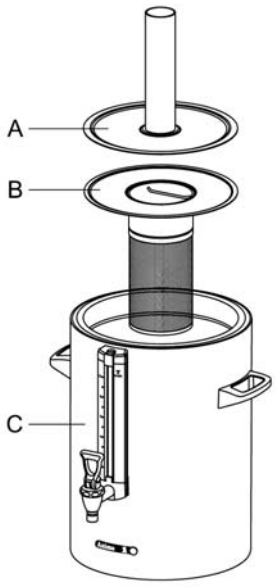
Tip

- If the swivel arm and/or the container are moved out of position before and/or during the brewing process, the brewing process will stop, a swivel arm and/or container symbol will appear in the display and you will hear a beeping signal (2x short). Once the positioning fault has been resolved the brewing process can be restored by pressing the START button ( ) . See “Error reporting symbols”.
- The brewing process can be interrupted at any moment with the STOP button ( ). The brewing process should then be considered as lost.
- Prepare another brewing process by getting the second synthetic filter ready if required. Once the water supply has stopped coming from the swivel arm, you can position the swivel arm above the other filter and start a new brewing process immediately. The dripping symbol from the 1st container will then disappear.

4.2.2 Brewing tea

For the preparation of tea you can follow the same steps as the ones described for the coffee brewing process. However, instead of using a coffee making unit, you should use a tea filter and disk (optional).

1. 1. Put the tea, loose or in bags, in the tea filter approximately 6 grams per liter.
2. nsert the tea filter into the disk (B) already placed in the container.
3. Place the filling pipe (A) on the tea filter. Then position the swivel arm over the pipe.
4. Select the brewing quantity and start the brewing process.
5. Remove the pipe and the tea filter after the tea has been made. ATTENTION: the filling pipe and filter are HOT!
6. After brewing put the insulated lid on the container to avoid loss of temperature and taste.
7. Clean the tea filter immediately after use.



A Filling pipe
B Tea filter with disk
C Container with lid

The optimum extraction time is minimally 4 minutes and maximally 15 minutes. After more than 15 minutes the flavor of the tea deteriorates.

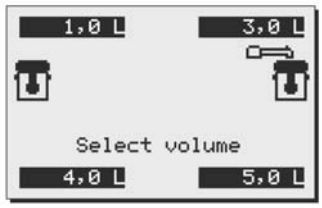
4.2.3 Timer function

The appliance comes with a built-in timer clock as standard. You can use this to start a coffee brewing process at a certain time.

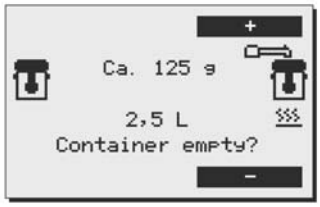
Press the timer button ( ).

Set the required start time (day/hour/min) with the left and right selection buttons (fig. 9A) and confirm your setting with the START button( ). The day automatically moves to the next day when the hour setting goes past 24:00. Confirm your choice with the START button ( )

Select the required brewing quantity (fig. 9B) and confirm your choice with the START button



The display shows.

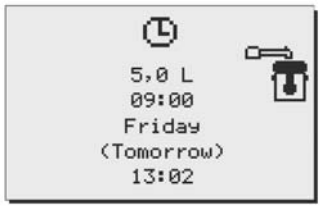


Place a basket filter paper in the basket filter and fill it with the recommended brewing amount of coffee (standard ground) as shown in the display. Spread the coffee evenly in the filter and put the filter lid on. Then place the filter unit on the container, and position the swivel arm above the centre of the filter.

Check if the container is empty. Confirm your choice with the START button .

Explanation of the display:

- Clock symbol (flashing): timer clock is activated
- The brewing quantity, start time and day are displayed.
- Swivel arm/container symbol: The coffee maker is ready.
- The appliance may NOT be switched off!



Tip

- The timer clock function can only be cancelled by pressing the STOP button .
- The container heating switches on automatically 5 minutes before the set time (pre-heating). The coffee brewing process is switched off during an activated timer clock function. The container heating can be used normally, for example, to keep the coffee on the left warm, while on the right the coffee brewing process is pre-programmed.The timer can be programmed a maximum of 6 days inadvance. This enables you to bridge a long weekendeasily.
- The swivel arm and container safety devices remain active. If the swivel arm moves out of position, for example, it is detected immediately and a warning symbol appears in the display followed by a beeping sound (2x short). Once the swivel arm is moved back to the correct position, the timer clock is active again.

4.2.4 Temperature protection

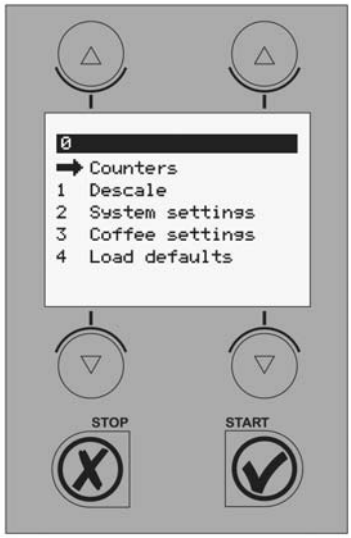
There temperature protection in the unit (fig. 1-6) that can be accessed from the outside. The protection switch off when the temperatures rise too high. The most common cause for switching off is scale that has not been removed in time. If the temperature protection operates proceed as follows:

- Let the unit cool down.
- Unscrew the black protection cover.
- Push the button that now appears and replace the black cover tightly.

If the protection was triggered due to scale formation, then proceed according to “Descaling”. If scale formation was not the cause, then contact your dealer.

4.2.5 The operator menu [5, 1x5, 10, 1x10, 20, 1x20, 2x5, 2x10, 2x20]

This chapter describes how the different settings can be changed by trained, qualified personnel. To gain access to the operator menu, read below. Once in the operator menu the control panel has the following functions:



Button selection arrow ➡ up

Button selection arrow ➡ down

Button back (without saving changes)

Button accept (activate)

4.2.6 Menu functions

You have the possibility of changing settings and have access to a number of maintenance functions via the operator menu. It is possible to select the following functions:

Menu	Explanation of Operator menu
0	Counters
1	Descaling
2	System settings
3	Coffee settings
4	Load defaults
5	Load defaults [W]

Getting access to the operator menu

1. Switch the appliance off (0)
2. Hold the START button ( ) and switch on (I) the ON / OFF switch ( ).
3. Release the START button when the display lights up. In the display appears: Operator menu. Press any button
4. Press any button. In the display appears: Enter PIN: _ _ _ _ _
5. Look up the associated 5 digit PIN and enter it using the numbered buttons in the display (5.3 to 5.6). Please note: the code number is produced at random, so the PIN is always different!
6. After entering the PIN the Operator menu will light up in the display.

Code no.	PIN
1	4 2 1 2 2
2	3 3 4 4 3
3	1 4 1 1 3
4	2 4 2 1 2
5	3 3 3 1 3
6	1 4 4 4 1
7	4 1 2 3 1
8	3 4 3 1 4
9	4 2 1 3 4
10	3 3 3 1 4
11	4 2 3 2 2
12	4 3 2 2 2
13	3 2 2 4 4
14	3 3 1 2 4
15	3 4 3 1 2
16	3 4 4 2 4
17	1 4 2 2 4
18	1 3 2 4 4
19	3 3 4 4 1
20	1 4 1 3 4

Scrolling through the menu and activating the functions

- Move the arrow ➡ to the required menu item using the selection buttons △ ▽
- You activate the required menu by using the START button ✓.
- By pressing the STOP button ✗ you go back to the previous screen without saving the changes made.

Confirm a change by pressing the START button ✓. You will hear a short beeping sound.

Closing the operators menu:

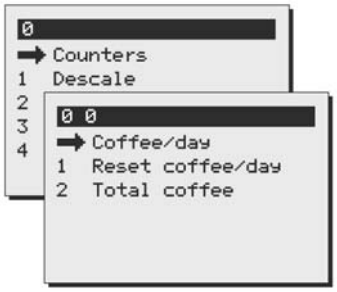
1. Press the STOP button ✓ until the user menu reappears.
2. Check if the changed settings are as required. If the settings are not as required,follow the procedure again.

While you are in the settings menu the appliance will not fill or heat up

4.2.7 Settings step by step

Counters (Menu 0) [5, 1x5, 10, 1x10, 20, 1x20, 2x5, 2x10, 2x20]

PIN ➡ Counters ➡ then select the counter item



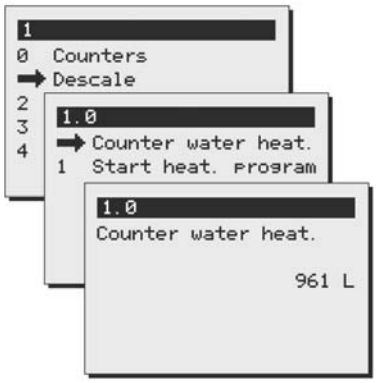
An overview of all counter functions follows in the display. At the top of the display is a navigation bar on which the selected menu item number is shown.

Menu	Explanation of Operator menu
0.0	Daily counter of coffee made in litres
0.1	Reset daily counter of coffee made
0.2	Total counter of coffee made in litres

1. Select the required counter, and confirm with the START button ✓.
2. Read the counter reading or reset the counter as required.

Descaling (Menu 1) [1x5, 1x10, 1x20, 2x5, 2x10, 2x20]

PIN ➡ Descaling ➡ then select function



An overview of all descaling functions follows in the display. At the top of the display is a navigation bar on which the selected menu function number is shown.

Menu	Explanation of Operator menu
1.0	Flow counter
1.1	Start flow counter

Flow counter (Menu 1.0)

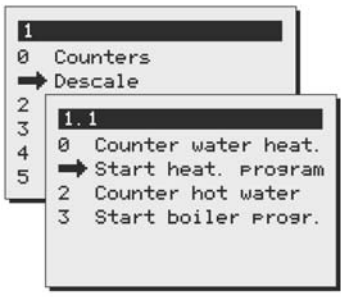
After activating the flow counter you can read how many litres away from a descaling signal the coffee maker is. Example: The diagram opposite indicates that the coffee making part (flow system) is still 961 litres away from a descaling signal. The counters are automatically reset after the relevant descaling program has been run.

Warnings

- Respect the descaling intervals indicated by the descale indicator symbol.
- Delaying maintenance of the heating system can lead to high repair costs and can invalidate the guarantee.
- When descaling, always pay attention to the directions on the scale remover.
- Keep up with the maintenance requirements for the appliance
- It is advisable to wear safety glasses and protective gloves when descaling.
- Wash your hands thoroughly after descaling.
- All repairs should be carried out by a trained, competent service engineer.
- The plug must always be pulled out of the power socket whenever the appliance has to be opened for repairs and other (cleaning) purposes.

Starting the coffee maker descaling program (Menu 1.1)

Preparation

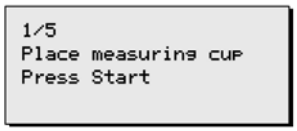


- Move the swivel arm above an empty container and synthetic filter.
- Brew the smalles brewing amount (without coffee) once. The advantage of this is that the element is well preheated, so that descaling is better and takes less time.
- Carefully read the caution notice and the directions on the sachet Animo scale remover.
- Dissolve 2 sachets of 50 gram Animo scale remover into 2 litre of warm water (60°C). Stir the solution thoroughly so that the powder is completely dissolved.

Remove the filter and place a plastic container under the outlet of the swivel arm to collect the scale remover.

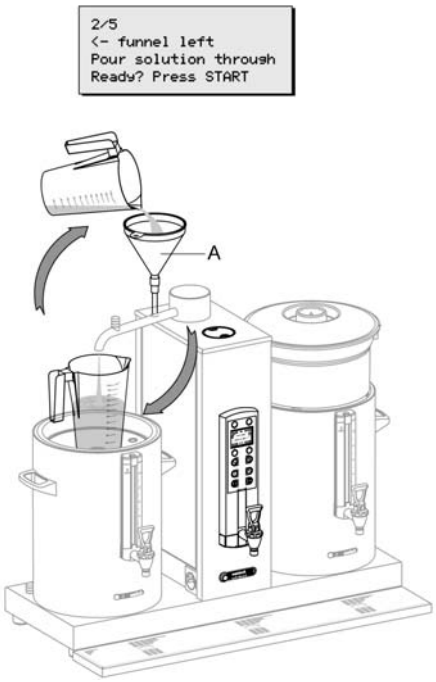
- Follow the instructions shown on the display and confirm each action with ✓.

Display: 1/5 Place measuring cup. Press start ✓.



Stopping the program

The program can be cancelled at any time until the solution is poured in. Once the solution has been poured in, the program must always be completed. In case of an emergency stop, the STOP button can always be used. The program will then stop, but not be finished.



- Remove the cap from the descaling opening left of the swivel arm.
- Insert the descaling funnel (A) into the descaling opening. Push the funnel downward as far as possible.
- Slowly pour the scale remover into the funnel. The scale remover will enter the boiler element by the supply pipe and will come out of the swivel arm as foam.
- Repeat the procedure described above if there is a grat amount of foam.
- Press the START button ✔ to continue the programm.

Display: 2/5 <- funnel left. Pour solution through. Ready? Press start ✔.

The program is now ready to flush the system 3 times, so that the remaining scale remover can be removed from the heating system. **Remove the funnel and replace the cap**. Remove the plastic container with the collected scale remover and replace the filter.

Display: 2/5 Remove funnel. Place filter. Press Start ✔

Display: 3/5 Rinse. Press Start ✔.

Press the START button ✔ to start the 1st rins cycle.

Display: 3/5 Rinse. Please wait.The coffee maker will heat up. The container will be filled with 2 litres. There will be 3 beeping signals after the 1st rinsing cycleDisplay: 3/5 Empty container. Press Start ✔.Once the container is empty press the START button ✔.

Display: 4/5 Rinse. Press Start ✓.

Press the START button ✓ to start the 2nd rinsing cycle.

Display: 4/5 Rinse. Please wait.The coffee maker will heat up. The container will be filled with 2 litres. There will be 2 beeping signals after the 2nd rinsing cycle.Display: 4/5 Empty container. Press Start ✓.

Once the container is empty press the START button ✓.

Display: 5/5 Rinse. Press Start ✓.

Press the START button ✓ to start the 3rd rinsing cycle.

Display: 5/5 Rinse. Please wait.The coffee maker will heat up. The container will be filled with 2 litres. There will be 3 beeping signals after the 3rd rinsing cycle.

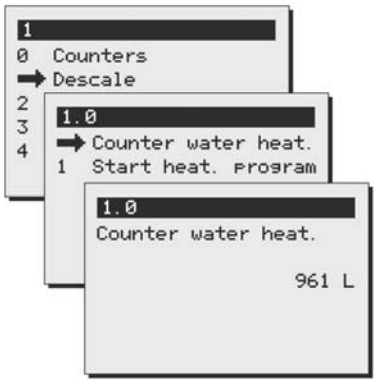
Display: 5/5 Empty container. Press Start ✓.

Once the container is empty press the START button ✓.

The descaling program is now complete and the descaling menu will reappear in the display. The flow counter will automatically be reset to the starting value. Exit the menu by pressing the STOP button ✗ twice, or select another menu function.

Descaling (Menu 1) [5, 10, 20]

PIN ➡ Descaling ➡ then select function



An overview of all descaling functions follows in the display. At the top of the display is a navigation bar on which the selected menu function number is shown.

Menu	Explanation of Operator menu
1.0	Flow counter
1.1	Start flow counter

Flow counter (Menu 1.0)

After activating the flow counter you can read how many litres away from a descaling signal the coffee maker is. Example: The diagram opposite indicates that the coffee making part (flow system) is still 961 litres away from a descaling signal. The counters are automatically reset after the relevant descaling program has been run.

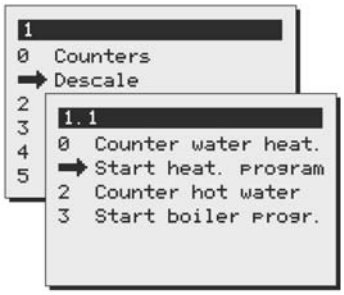
⚠ Warnings

- Respect the descaling intervals indicated by the descale indicator symbol.
- Delaying maintenance of the heating system can lead to high repair costs and can invalidate the guarantee.
- When descaling, always pay attention to the directions on the scale remover.
- Keep up with the maintenance requirements for the appliance
- It is advisable to wear safety glasses and protective gloves when descaling.
- Wash your hands thoroughly after descaling.
- All repairs should be carried out by a trained, competent service engineer.
- The plug must always be pulled out of the power socket whenever the appliance has to be opened for repairs and other (cleaning) purposes.

Starting the coffee maker descaling program (Menu 1.1)

Preparation

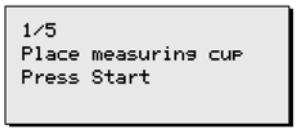
- Move the swivel arm above an empty container and synthetic filter.
- Brew the smalles brewing amount (without coffee) once. The advantage of this is that the element is well preheated, so that descaling is better and takes less time.
- Carefully read the caution notice and the directions on the sachet Animo scale remover.
- Dissolve 2 sachets of 50 gram Animo scale remover into 2 litre of warm water (60°C). Stir the solution thoroughly so that the powder is completely dissolved.



Remove the filter and place a plastic container under the outlet of the swivel arm to collect the scale remover.

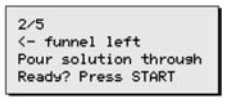
- Follow the instructions shown on the display and confirm each action with ✓.

Display: 1/5 Place measuring cup. Press start ✓.



Stopping the program

The program can be cancelled at any time until the solution is poured in. Once the solution has been poured in, the program must always be completed. In case of an emergency stop, the STOP button can always be used. The program will then stop, but not be finished.



- Remove the cap from the descaling opening left of the swivel arm.
- Insert the descaling funnel (A) into the descaling opening. Push the funnel downward as far as possible.
- Slowly pour the scale remover into the funnel. The scale remover will enter the boiler element by the supply pipe and will come out of the swivel arm as foam.
- Repeat the procedure described above if there is a grat amount of foam.
- Press the START button ✔ to continue the programm.

Display: 2/5 <- funnel left. Pour solution through. Ready? Press start ✔.

The program is now ready to flush the system 3 times, so that the remaining scale remover can be removed from the heating system**. Remove the funnel and replace the cap**. Remove the plastic container with the collected scale remover and replace the filter.

Display: 2/5 Remove funnel. Place filter. Press Start ✔

Display: 3/5 Rinse. Press Start ✔.

Press the START button ✔ to start the 1st rins cycle.

Display: 3/5 Rinse. Please wait.The coffee maker will heat up. The container will be filled with 2 litres. There will be 3 beeping signals after the 1st rinsing cycleDisplay: 3/5 Empty container. Press Start ✔.Once the container is empty press the START button ✔.

Display: 4/5 Rinse. Press Start .

Press the START button to start the 2nd rinsing cycle.

Display: 4/5 Rinse. Please wait.The coffee maker will heat up. The container will be filled with 2 litres. There will be 2 beeping signals after the 2nd rinsing cycle.Display: 4/5 Empty container. Press Start .

Once the container is empty press the START button .

Display: 5/5 Rinse. Press Start .

Press the START button to start the 3rd rinsing cycle.

Display: 5/5 Rinse. Please wait.The coffee maker will heat up. The container will be filled with 2 litres. There will be 3 beeping signals after the 3rd rinsing cycle.

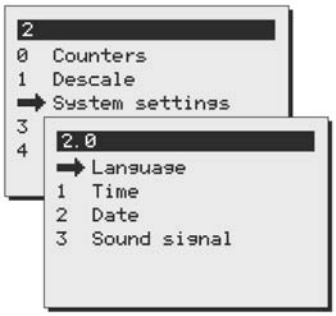
Display: 5/5 Empty container. Press Start .

Once the container is empty press the START button .

The descaling program is now complete and the descaling menu will reappear in the display. The flow counter will automatically be reset to the starting value. Exit the menu by pressing the STOP button twice, or select another menu function.

System settings (menu 2)

PIN ➡ System settings ➡ then select function



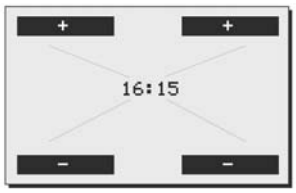
An overview of all system settings follows in the display. At the top of the display is a navigation bar on which the selected menu function number is shown.

Menu	Explanation of Operator menu
2.0	Language
2.1	Time
2.2	Date
2.3	Sound signal

Language (Menu 2.0)

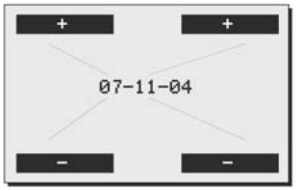
Before using the appliance you must first set the desired language. The default language setting is English. Select the required language, and confirm your changes with the START button ✔. Tip!: If Menu 4-Load defaults is activated, the altered language choices will remain unchanged.

Time (Menu 2.1)



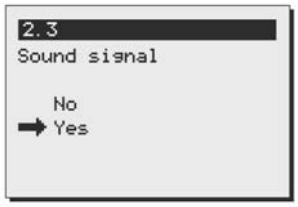
Before using the appliance you must first set the time. Use the left selection button to set the hour Use the right selection button to set the minutes. Confirm your changes with the START button ✔.

Date (Menu 2.2)



Before using the appliance you must first set the date. Use the left selection button to set the day Use the right selection button to set the month. The year count changes automatically every 12 months. Confirm your changes with the START button ✔.

Sound signal (Menu 2.3)

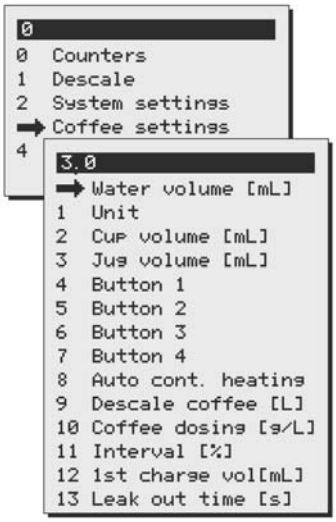


When in use the appliance makes different sound signals. You can switch the sound signals off if desired. Select the required choice and confirm your changes with the START button ✔.

Coffee settings (Menu 3)

PIN ➡ Coffee settings ➡ then select function

An overview of all coffee settings follows in the display. At the top of the display is a navigation bar on which the selected menu function number is shown.

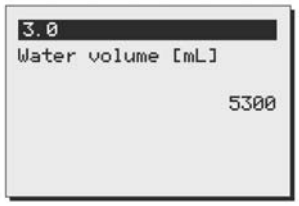


Menu	Explanation of Operator menu
3.0	Water volume
3.1	Unit
3.2	Cup volume
3.3	Mug volume
3.4	Button 1
3.5	Button 2
3.6	Button 3
3.7	Button 4
3.8	Auto container heating
3.9	Descale indicator
3.10	Coffee dosage
3.11	Interval
3.12	1st charge volume
3.13	Leak out time

Water volume (Menu 3.0)

The container will overflow if too large an amount is set. The manufacturer accepts no responsibility for the consequences of changed settings.

During use, it can occur that the quantity of water in the container is not as required. This depends on the amount of coffee and the size of coffee ground used. The amount of water that comes out of the swivel arm is set to 6% - 10% extra water as standard. The table below shows the settings scope.



Water volume		
Model	Factory settings	Settings
CB 5W	5,300 ml	4,800-5,800 ml
CB 10W	10,800 ml	9,800-11,800 ml
CB 20W	22.000 ml	20.000-24.000 ml

Increase or decrease the water volume [ml] with the selection buttons above and below the display. Confirm the changes made with START button or go back without making any changes by pressing the STOP button .

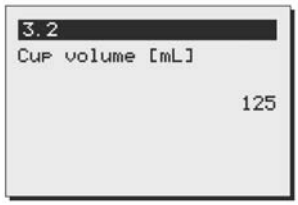
Unit (Menu 3.1)

You can change the unit in which the selection buttons are shown in the display with this function.The unit can be set as Litres (standard), Jug or Cup.

Select the required unit and confirm your changes with the START button or go back without saving any changes using the STOP button .

Please note: The counter menu continues to be displayed in litres.

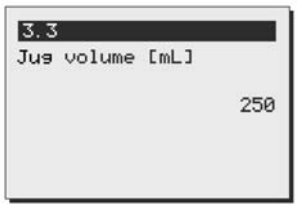
Cup volume (Menu 3.2)



You can change the volume of the cup with this function. The cup volume is set to 125 ml as standard The settings scope is between 100 and 500 ml (1 ml steps).

Set the required cup volume and confirm your changes with the START button or go back without saving any changes by pressing the STOP button .

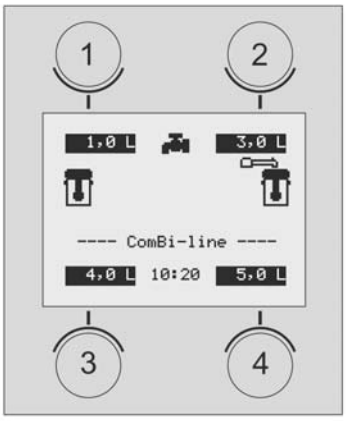
Jug volume (Menu 3.3)



You can change the volume of the jug with this function. The jug volume is set to 250 ml as standard The settings scope is between 200 and 2500 ml (1 ml steps).

Set the required jug volume and confirm your changes with the START button or go back without saving any changes by pressing the STOP button .

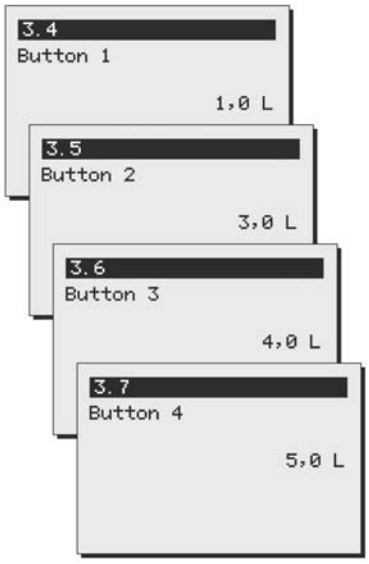
Changing the selection buttons (Menu 3.4 to 3.7)



You can set each selection button as required with this function. The four selection buttons are set in the factory as shown in the table below .

With the help of Buttons 1 to 4 (menu 3.4 to 3.7), the choice can be set within the scope with associated step size indicated in the table below.

Selection buttons unit litres			
Model	Factory settings	Settings scope	Step
CB 5W	1-3-4-5 l	1-5 l	0,5 l
CB 10W	2,5-5-7,5-10 l	2-10 l	0,5 l
CB 20W	5-10-20-40 l	4-20 l	1 l



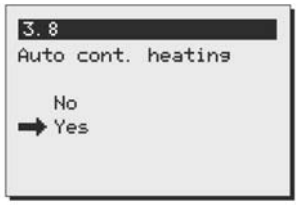
Set the required amount for button 1 and confirm your changes with the START button or go back without saving any changes by pressing the STOP button . Repeat this for buttons 2 to 4.

Have you changed the unit of Litres to Cup or Jug? The litre setting is automatically calculated by the relevant litre setting divided by the cup or jug volume. The four selection buttons then automatically have the settings as shown in the following overview (Table 3 + 4) Each selection button within the settings scope and associated step size can be set with the help of the menu buttons 3.4 to 3.7.

Selection buttons unit cups			
Model	Factory settings	Settings scope	Step
CB 5W	8-24-32-40	8- 4 cups	1 cup
CB 10W	20-40-60-80	20-80 cups	1 cup
CB 20W	40-80-120-160	8- 4 cups	5 cups

Selection buttons unit jugs			
Model	Factory settings	Settings scope	Step
CB 5W	4-12-16-20	4-20 jugs	1 jug
CB 10W	10-20-30-10	10-40 jugs	1 jug
CB 20W	20-40-60-80	20-80 jugs	1 jug

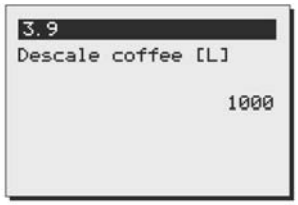
Switching on the container heating automatically (menu 3.8)



When starting a coffee making process the appliance automatically switches the right container heating on. The container heater then stays switched on and must always be switched off manually. You can switch this function off if required.

Set the required choise and confirm your changes with the START button or go back without saving any changes by pressing the STOP button .

Coffee making descale indicator settings (menu 3.9)



Before you start using the appliance you must first set the descale indicator.

- The default descale indicator is set to 1000 litres (average water hardness) and has a scope of 0 to 9999 litres in steps of 100
- Use the table 5 below and select the relevant water hardness in the left column (°D). On the right you can read after how many litres (recommended) the system must be descaled.
- Once the set amount of litres has been reached a spanner symbol will appear in the display. The appliance will continue to work normally so that descaling can be done at a more suitable time.
- In the Descaling menu 1.0 you can see how many litres away from a descale indicator signal the system still is.

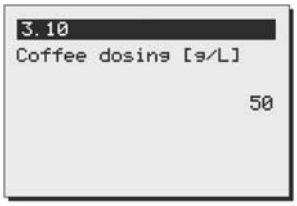
Water quality	Hardness				Descale indicator litres
	°D	°F	mmol/l	mgCaCo3/l	
Very hard	18-30	32-55	3,2-5,3	321-536	250
Hard	12-18	22-32	2,2-3,2	214-321	500
Average	8-12	15-22	1,4-2,2	268-214	1000*
Soft	4-8	7-15	0,7-1,4	72-268	1500
Very soft	0-4	0-7	0-0,7	0-72	2000

*Standard setting

Set the required number of litres and confirm your changes with the START button or go back without saving any changes by pressing the STOP button .

- Contact your local water company if you are unsure about the hardness of your tap-water.

Coffee dosage (menu 3.10)



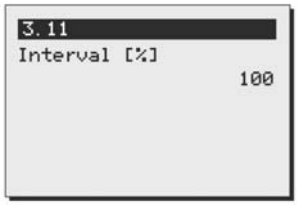
When an amount is selected, the recommended amount of ground coffee (grams) that should be put in the filter unit in order to make the selected amount of coffee appears in the display.The amount of coffee is set to 50 grams/litre as standard and can be set from 0 to 100 grams in steps of 1 gram.

Set coffee dosage and confirm your changes with the START button or go back without saving any changes by pressing the STOP button .

If the coffee dosage advice is not desired you can switch it off by setting the grams/litre value to 0.

Please note: When setting larger amounts of coffee a negative correction factor is applied to the calculation. This means that the coffee dosage advice is lower than the result of the calculation 'brewing quantity x coffee dosage.

Interval (menu 3.11)



Using very finely ground coffee or very soft water will result in the water running through the coffee filter more slowly. Pausing the hot water pouring after the 1st charge volume (half way through the making process) for periodic intervals (that can be set) can prevent the coffee filter from overflowing.

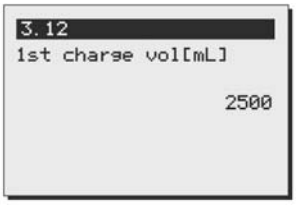
Interval Settings

- The interval is set to 100% as standard. The brewing process can then run smoothly.
- The interval can be set from 100% to 50% in steps of 5%. After a setting has been made the controller calculates the time out interval itself (see table below).
- If the hot water pouring switches to the interval mode after the 1st charge, the water supply and pausing will continue until the required volume has been reached.
- The interval setting and the 1st charge volume can only be determined by trial and error by keeping an eye on the filtering process during the coffee making.

Set the required number of litres and confirm your changes with the START button or go back without saving any changes by pressing the STOP button .

Interval	Water pourng time	Interval-time
100%	Continue	0 sec
95%	45 sec	4,5 sec
90%	45 sec	9 sec
85%	45 sec	13,5 sec
80%	45 sec	18 sec
75%	45 sec	22,5 sec
70%	45 sec	27 sec
65%	45 sec	31,5 sec
60%	45 sec	36 sec
55%	45 sec	40,5 sec
50%	45 sec	45 sec

1st charge menu (menu 3.12)



The 1st charge volume can be increased if it is only found outlater in practise that the filtering process threatens to overflow

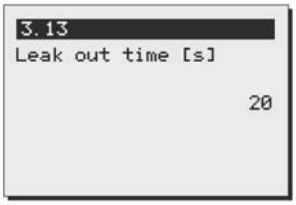
Setting the 1st charge volume

- The 1st charge volume only becomes active if the interval is set at 95% or less.
- The 1st charge volume is set for half way through the brewing process as standard.
- The 1st charge volume can be set according to the table below.

Set the desired 1st charge volume and confirm your changes with the START button or go back without saving any changes by pressing the STOP button .

Model	Factory settings	Settings scope	Step
CB 5W	2.500 ml	2500-4500 ml	250
CB 10W	5.000 ml	5000-9000 ml	250
CB 20W	10.000 ml	8000-18000 ml	250

Leak out time (menu 3.13)



The leak out time starts once the hot water distribution is stopped. The leak out time through the filter can vary depending on the type, size and/or amount of coffee.

Leak out time settings

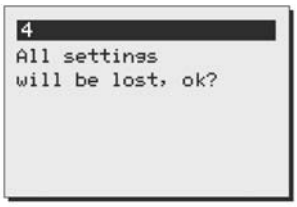
- If no leak out time is required the time can be set to 0. There will then be no dripping symbol in the display followed by a sound signal..

Set the required leak out time and confirm your changes with the START button or go back without saving any changes by pressing the STOP button .

Model	Factory settings	Settings scope	Step
CB 5W	240 sec	0-900	10
CB 10W	300 sec	0-900	10
CB 20W	360 sec	0-900	10

Load defaults (menu 4) [5, 1x5, 10, 1x10, 20, 1x20, 2x5, 2x10, 2x20]

You can restore all the default settings except for the language setting with this function. Please note: All settings that you have changed in the operator menu will be lost.



Press the START button to load the default settings or go back without making any changes by pressing the STOP button .

4.3 After use

4.3.1 Cleaning

Do not leave the appliance unattended when maintenance is being performed

Never submerge or spray the appliance

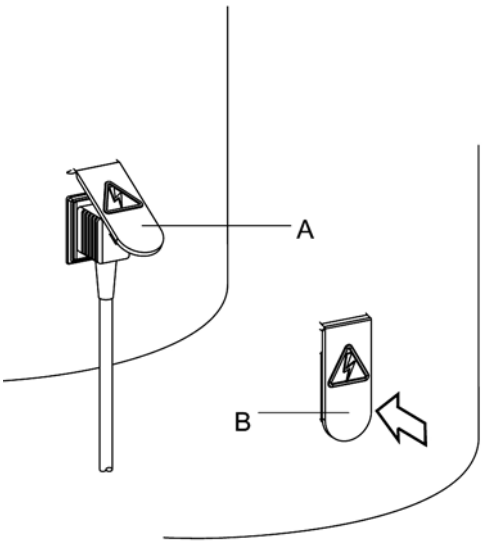
The plug must be taken out of the socket if the appliance has to be opened for cleaning or repairs

Always follow the manufacturer instructions when using the scale remover.

When descaling the appliance, it is advisable to wear safety glasses and protective gloves.

Cleaning general

- The outside of the container can be cleaned with a wet cloth, then wiped dry. Never use any abrasives, as these can cause scratches and dull spots.
- Always take the connection lead out of the multiple socket during cleaning and maintenance activities and close it off with the splash protector (B). An opened splash protector (A) protects the socket connection from moisture running in from above. A closed splash protector protects the multiple socket from dirt and moisture.
- Attention! Do not place the container type CNe (electrical execution) in the dish washer or sink.



- The container type CNi (insulated execution) is allowed to be cleaned in the dish washer or sink, because of its IP 65 construction.
- Do not leave the filter and the blender on a container which is not in use. Place the lid obilique on the container, otherwise a stale taste may be the result.
- Always leave some clean water (2 cups) in the container, This stops the washers from drying out.

Cleaning daily

- Rinse the inner pot of the container after use with hot water, or use if necessary Animo coffee fur remover. Empty the container with the no-drip tap.
- The filter, water distributor lid, blender and drip tray can be washed normally and rinsed clean. The filter andwater distributor lid are allowed to be cleaned in the dishwasher.
- Despite daily cleaning coffee deposits can still remain in the inner pot and the gauge glass, see chapter “Cleaning wekly”, “Cleaning the tap” and “Cleaning the gauge glass”.

Cleaning weekly

A sachet of coffee fur remover is supplied with the machine. Use is extremely simple.

Removal of coffee deposits from the inner pot:

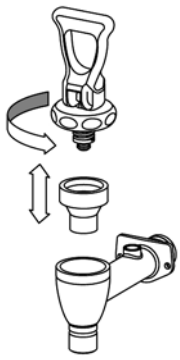
1. Fill half of the container with warm water and dissolvea sachet of coffee fur remover in it.
2. Let the solution work for 15 to 30 minutes, then empty the container.
3. Rinse the container thoroughly with hot water a few times.

Removal of coffee deposits from the other parts:

1. Take a bowl filled with abt. 5 liter warm water and dissolve the coffee fur remover solvent from the sachet in it.
2. Put the parts that need to be cleaned in the bowl and soak them for 15 to 30 minutes.
3. Rinse several times with warm water. Repeat treatment if the result is insufficient.
4. Scatter coffee fur remover on very filthy spots and clean with a wet brush.

Cleaning the tap

1. Unscrew the top of the tap by turning it to the left.
2. Pull the silicon sealer vertically away from the screw top
3. Put the parts to be cleaned in this solution and let it work for 15 to 30 minutes.
4. Then rinse off several times with warm water and put back together in reverse order, repeat if the results are insufficient.

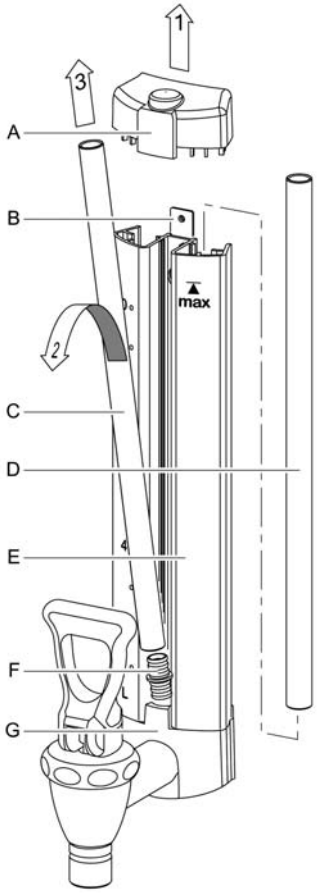


Cleaning the gauge glass

Risk of burning! Empty the container before you remove the gauge glass for cleaning.

Always treat the gauge glass with the necessary caution. Take the glass out of the protector with the help of a dry cloth and hold the gauge glass firmly with the cloth as you clean it with the gauge glass brush.

1. Empty the container, remove the filter and the coffee blender.
2. Take the gauge glass lid (A) off by pulling it vertically up from the protector profile.
3. Take a dry cloth, and use it to take the top of the gauge glass (C) from the recess and pull the gauge glass carefully diagonally up out of and loose from the tap connection.
4. Remove the bottom tulle (F) from the gauge glass and clean the gauge glass with the help of the supplied gauge glass brush. (careful fragile!)
5. Moisten the gauge glass ends + tulle and put the tulle back in the glass and push the gauge glass into the tap connection with the tulle (G).
6. Always put the gauge glass lid (A) vertically on the protector profile, push the top tulle with the index finger (in the middle of the gauge glass lid). Please note: make sure that the gauge glass lid stays firmly pushed against the container wall when placing it. Only then the gauge glass will stay well. (The lip in the gauge glass lid (A) must be behind the holding plate (B).



A - Gauge glass lid
B - Holding plate
C - Gauge glass
D - Extra gauge glass
E - Protector profile
F - Lower tulle
G - Tap cap

On the inside of the gauge glass protector is a spare gauge glass (D). The assembly of the gauge glass system is much easier if you moisten the gauge glass ends and tulles well.

4.3.2 Periodic descaling activities

This chapter describes the periodic descaling activities of the machine that can only be executed by trained, qualified personnel.

Observe the descaling intervals indicated by the descaling indicator symbol.

Overdue maintenance to the heating system can result in high repair costs and annulment of the guarantee.

Always follow the manufacturer instructions when using the scale remover.

Do not leave the appliance unattended when maintenance is being performed.

When descaling the appliance, it is advisable to wear safety glasses and protective gloves.

Wash your hands after descaling.

Descaling the coffee maker

After entering the Operator PIN you have access to the descaling menu where you can start the descaling program for the coffee maker. Follow the descaling procedure as described in the operator menu.

5. Installation

5.1 General

This appliance may only be positioned and connected by a qualified service engineer. The following rules must be observed:

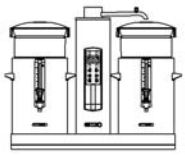
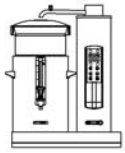
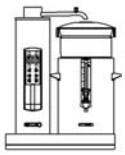
- only suitable for indoor use
- not suitable for use in humid areas
- not suitable for areas with explosion hazard

5.2 Unpacking [1x5, 1x10, 1x20, 2x5, 2x10, 2x20]

The machine has been carefully packed to prevent damage being caused to your new appliance.

Remove the packing carefully without using sharp objects. Check if the appliance is complete.

The appliance (tower) will be delivered already mounted on a base plate according to the specifications below.

Model	**CB 2x_**	**CB 1x_L**	**CB 1x_R**
- 1 swivel arm	1	1	1
- 1 drip tray with grid	1	1	1
Carton with basket filter	2	1	1
- 1 sythetic filter			
- 1 water distributor lid			
- 1 set basket filter paper abt. 25 pcs			
Carton with container	2	1	1
- 1 container			
- 1 insulated lid			
- 1 blender/transport disk			
- 1 gague glass brush			
- 1 sticker sheet coffee/tea			
- 1 electric cable 1,5m			
Carton with accessories column/base	1	1	1
- 1 connection hose 1,5m			
- 1 descaling funnel			
- 1 sachet coffee fur remover			
- 1 sachet scale remover			
- 1 manual			
- 1 set centric shoulders (4x)			
- 2 electric cables 0,6m			

Please contact your dealer in case parts are missing or damaged.

Water always remains in the heating system: for this reason the appliance must not be placed in an area where the temperature can fall below freezing point.

5.3 Unpacking [5, 10, 20]

The machine has been carefully packed to prevent damage being caused to your new appliance.Remove the packing carefully without using sharp objects. Check if the appliance is complete.The appliance (column) will be delivered already mounted on a console according to specifications below.

Model	**CB 5 / 10 / 20**
Carton with accessories column:	1
- wall bracket	1
- drip tray with grid	
- connection hose 1,5m	1
- descaling funnel	1
- sachet coffee fur remover	1
- swivel arm	1
- manual	1

Please contact your dealer in case parts are missing or damaged.

Water always remains in the heating system: for this reason the appliance must not be placed in an area where the temperature can fall below freezing point.

5.4 Preparation for positioning

- Place the appliance at buffet height on a firm, level base that can withstand the weight of the machine when filled.
- Make sure that the appliance is level and placed somewhere where it will not cause damage should leakage occur.
- Place the appliance in such a way that the descaler filling opening on the top of the column can be reached.
- The water supply line (G3/4" 15 mm pipe), a discharge for the overflow connection (25 mm hose) and the power connection must be within half a meter of where the machine is positioned.
- The user is responsible for ensuring that these technical installation preparations are executed according to local regulations by qualified engineers.
- The service engineer is only permitted to connect the appliance to the prepared connection points.

5.5 Water connection

Connect the appliance using the water hose to an easily accessible aeration tap that can be closed quickly if problems arise. The minimum water pressure may not be under 0,2 Bar (at 5L/min. flow pressure)

The appliance can only be connected to a cold water outlet.

5.5.1 Water treatment

You are emphatically advised to use a water softener and/or a water filter if the water contains too much chlorine or is too hard (>8°dH). This enhances the quality of the drink and precludes having to descale the appliance too often.

5.6 Water drainage

Tha appliance doesn't need to be drained.

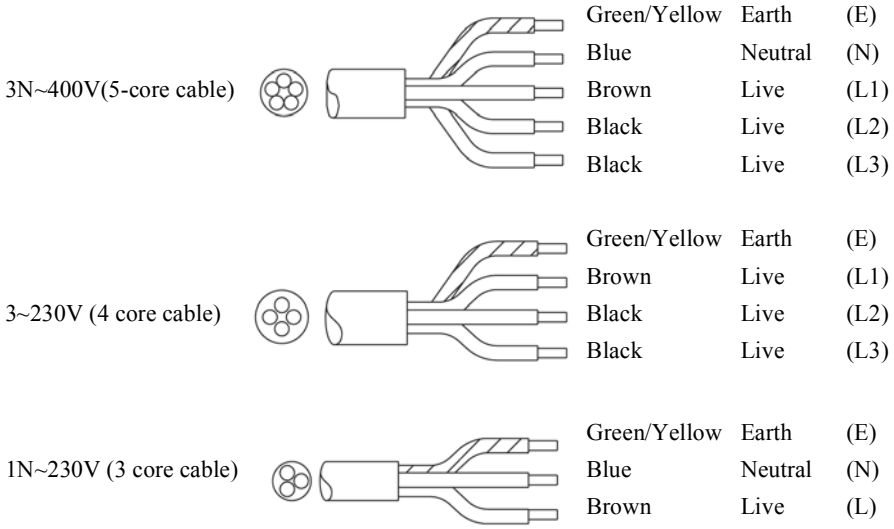
5.7 Electrical connection

Supply voltages and frequencies can differ between countries. Check if the appliance is suitable for connection to the local power mains. Check if the details on the type plate correspond.

The earthed wall socket and the fused group with a main switch belong to the electrical installation. No heavy machines that could cause variations in power when being switched on, can be connected to this group. A machine with power current (three phase) is delivered from the factory without plug. At delivery, the machine must be provided with an electrically suitable plug as advised and provided by the installer.

The following points should be observed when wiring a new plug:

1. The green/yellow-coloured wire ("EARTH") should be connected to the terminal which is either marked with the letter "E", the "earth" symbol (⏚), or coloured green or green/yellow.
2. The blue-coloured wire ("NEUTRAL") should be connected to the terminal which is either marked with the letter "N" or coloured black.
3. The brown-coloured wire ("PHASE") should be connected to the terminal which is either marked with the letter "L1, L2 and L3" or coloured red.



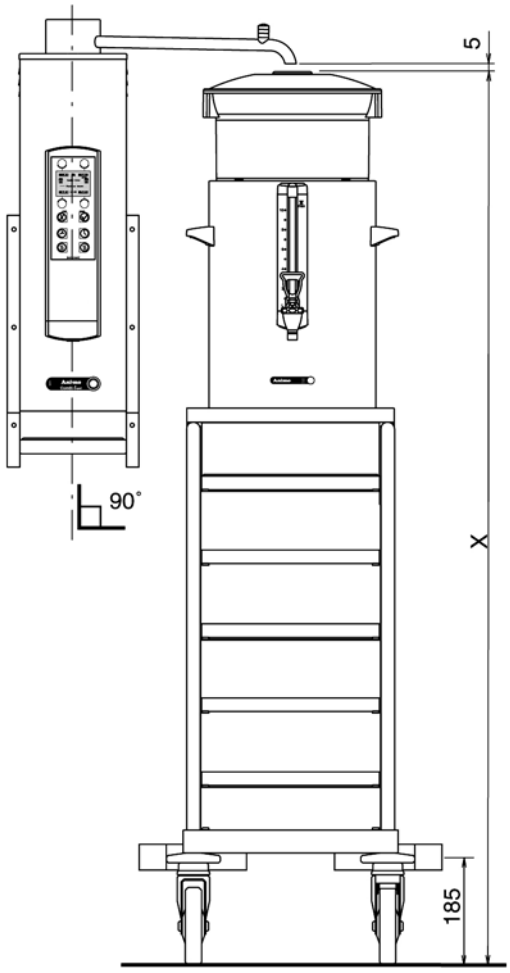
5.8 Connection on a counter [1x5, 1x10, 1x20, 2x5, 2x10, 2x20]

1. Connect the machine at counter level and on a solid flat surface.
2. Before the connections are made, check whether the main voltage corresponds to the voltageindicated on the type plate.
3. Determine the position of the machine on the counter.
4. If necessary, make the transits on the counter for electricity, water and drainage, see installation drawing for measurements.
5. Mount the supplied centering shoulders on the base plate.
6. Connect the electricity supply, cold water supply and the overflow.
7. Place the drip tray in front of the machine.
8. Place the containers against the centring shoulders, place the coffee blenders into the containers and put the filter units on the containers.
9. Connect the container(s) by using the supplied short (60 cm) connection cable and put the mains plug from the relevant column in the mains socket.
10. Position the swivel arm over the centre of the filter.

5.9 Mounting on a wall [5, 10, 20]

Mount the appliance on the wall with the aid of the bracket supplied in accordance with the condition of the mounting wall and with the aid of suitable plugs. In case of cellular concrete, plasterboard or similar walls of other materials screw right through them or apply extra wall reinforcement.

1. The local voltage should correspond to the specifications indicated on the type plate.
2. Determine the complete arrangement of the serving trolley(s) with flow water heaters.
3. Determine position of the flow water heater, see the figure below.
4. Mount the flow water heater to the wall with the aid of the bracket supplied and connect electricity, water supply and overflow pipe.
5. Position the serving trolley, container and filter next to the flow water heater (take the parking rails into account see point 6), adjust the stop of the swivel arm in such a way that the outlet is always above the centre of the filter. The stop can be reached by pulling the swivel arm up vertically.
6. Take note! the swivel arm should always be at a slight downward angle.
7. Determine the place of the parking rails and mount them on the wall at the correct height in such a way that the serving trolley will stand with its round push rubbers in between the parking rails.



If only one serving trolley is placed next to the flow water heater, we recommend you to adapt the swivel arm protection (located under the swivel arm) on the side on which no serving trolley is placed. This prevents the possibility of starting the flow water heater when the swivel arm is in the opposite direction to the one where the serving trolley is placed The adaptation is done as follows.

1. Remove the swivel arm by lifting it vertically out of the flow water heater.
2. Detach the relevant stop from the swivel arm bottom.
3. Remove the magnet from the underside of this stop.
4. Reassemble the stop on the bottom.
5. Place the swivel arm back on the flow water heater.
6. Test whether the flow water heater can only be activated when it is above the filter.

6. Troubleshooting

Have all repairs to the electrical system performed by a qualified service technician.

PROBLEM	Possible cause	Measures
C2 (coffee)	Coffee maker doesn't work.Dry-boil protection switched off.	Reset dry-boil protection coffee making unit. Check to see if the coffee makerneeds to be descaled, and descale if necessary.
C3 (coffee) I	Coffee maker doesn't fill any more	Check the water pressure, turn the water supply taps completely open, check if the connecting hose is fastened. Problem solved, error message disappears.
C3 (coffee) II	Coffee maker fills too slowly.	Check the water pressure, turn the water supply taps completely open, check if the connecting hose is fastened.
C4 (coffee)	Water inlet valve doesn't close properly.	Call the service engineer or dealer.
C7 (coffee)	Minimum electrode fault.	Call the service engineer or dealer.
C8 (coffee)	Error C3 changes to C8 after 10 minutes.The inlet valve is closed for safety.Please note: this also happens when themax level is reached!	Restore water supply and restart the coffee making process.
C9 (coffee)	Problems with registering the volume ofwater.	Call the service engineer or dealer.

If your appliance is not functioning correctly, use this troubleshooting guide to see whether you can resolve the problem yourself. If not, please contact your dealer.

7. Spare parts

General parts CB5.....53

Outer parts CB5 55

Inner parts CB5.....57

General parts CB10.....63

Outer parts CB10 65

Inner parts CB10.....67

General parts CB20.....73

Outer parts CB20 75

Inner parts CB20.....77

Container CN5e 83

Container CN10e 85

Container CN20e 87

Container CN5i.....89

Container CN10i.....91

Container CN20i.....93

7.1 Voltage codes

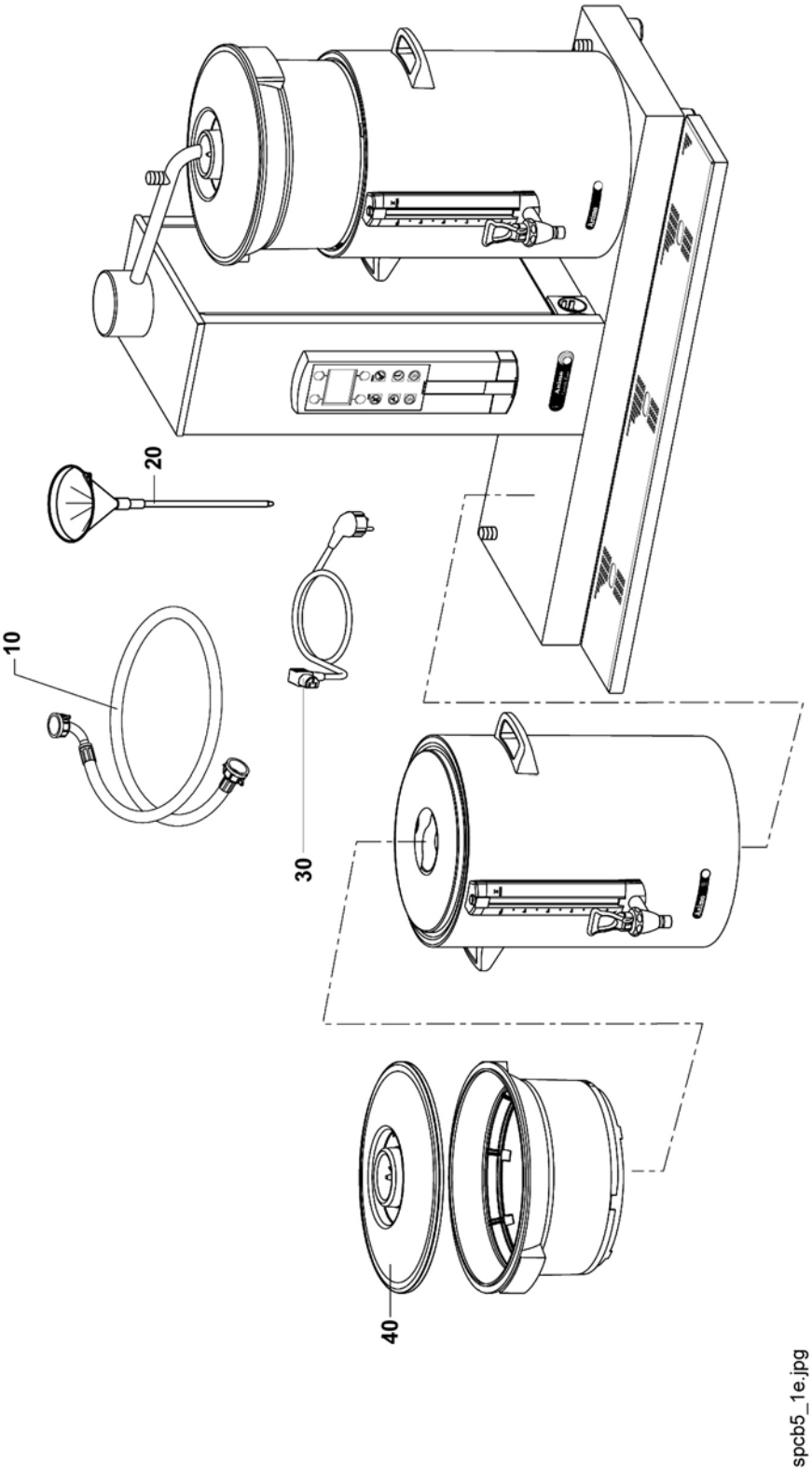
Voltage	Voltage code
A	3/N/PE~400/230V 50Hz
B	~250V 16A 50Hz
C	3/N/PE~380/220V 50Hz
D	3/PE~200V 50-60Hz
F	2/PE 220–240V 50Hz
G	3/N/PE~415/240V 50Hz
H	3/PE~230V 50Hz
I	3/PE~220V 60Hz
J	3/PE~380 50Hz
K	3/PE~400V 50Hz
L	3/PE~415V 50Hz
M	3/PE~440V 60Hz
N	3/PE~460V 60Hz
O	3/PE~480V 60Hz
P	1/N/PE~220-240V 50Hz
R	2/PE~220-230V 60Hz
S	3/N/PE~400/230V 50Hz
T	3/PE~230V 60Hz
U	1/N/PE~100V 50-60Hz

7.2 Product codes

Product code	Full name
Model codes	
CB	CB
CBW	CBW
Type codes	
5	5
1x5R	1x5R
1x5L	1x5L
2x5	2x5
10	10
1x10R	1x10R
1x10L	1x10L
2x10	2x10
20	20
1x20R	1x20R
1x20L	1x20L
2x20	2x20
5W	5W
1x5WR	1x5WR
1x5WL	1x5WL
2x5W	2x5W

Spare parts

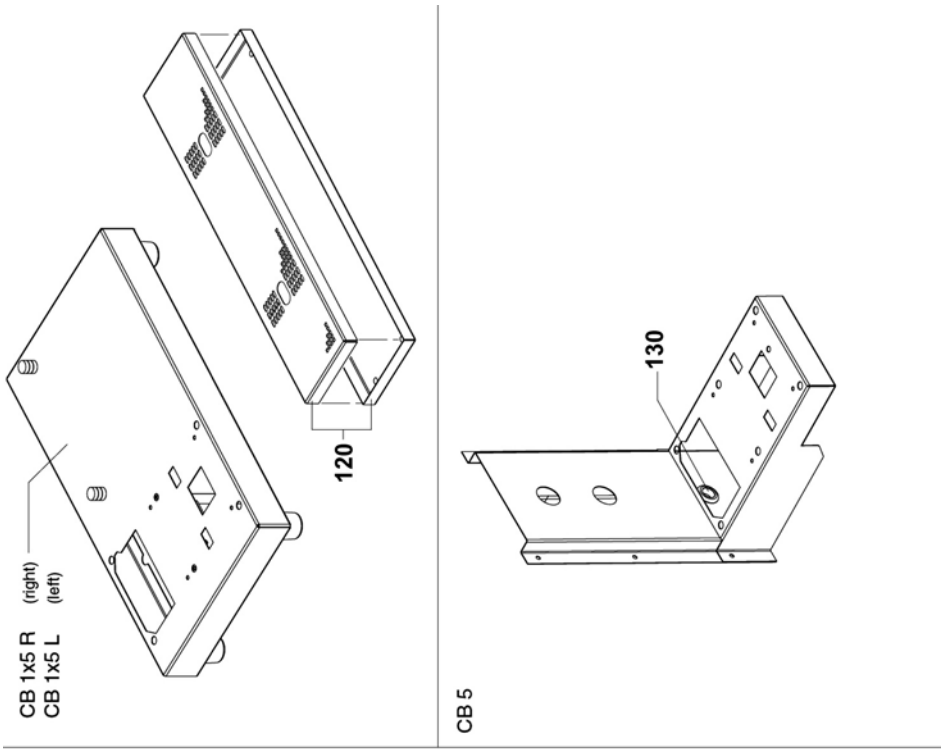
Product code	Full name
10W	10W
1x10WR	1x10WR
1x10WL	1x10WL
2x10W	2x10W
20W	20W
1x20WR	1x20WR
1x20WL	1x20WL
2x20W	2x20W
Accessory codes	

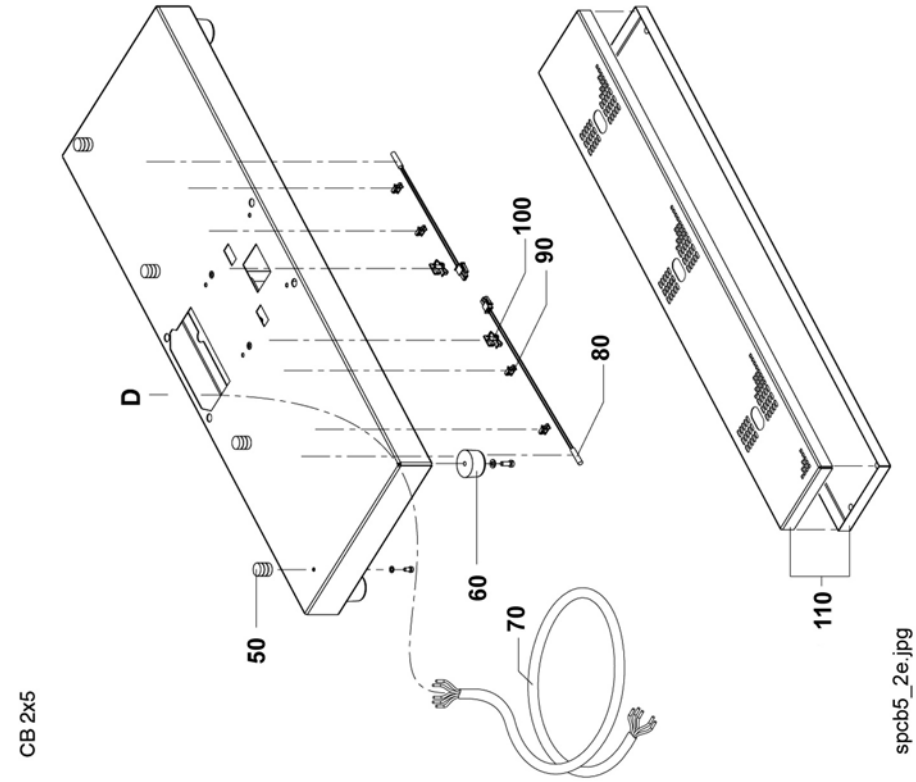

20
10
30
40
spcb5_1e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:General parts CB5							
10	08165			CB	5,1x5L,1x5R,2x5		CONNECTION TUBE (BLUE)
20	99740			CB	5,1x5L,1x5R,2x5		DESCALLING FUNNEL GL/TK
30	03071			CB	5,1x5L,1x5R,2x5		CABLE
40	13141			CB	5,1x5L,1x5R,2x5		WATER DISTRIB. LID CN 5e/i CPL

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20

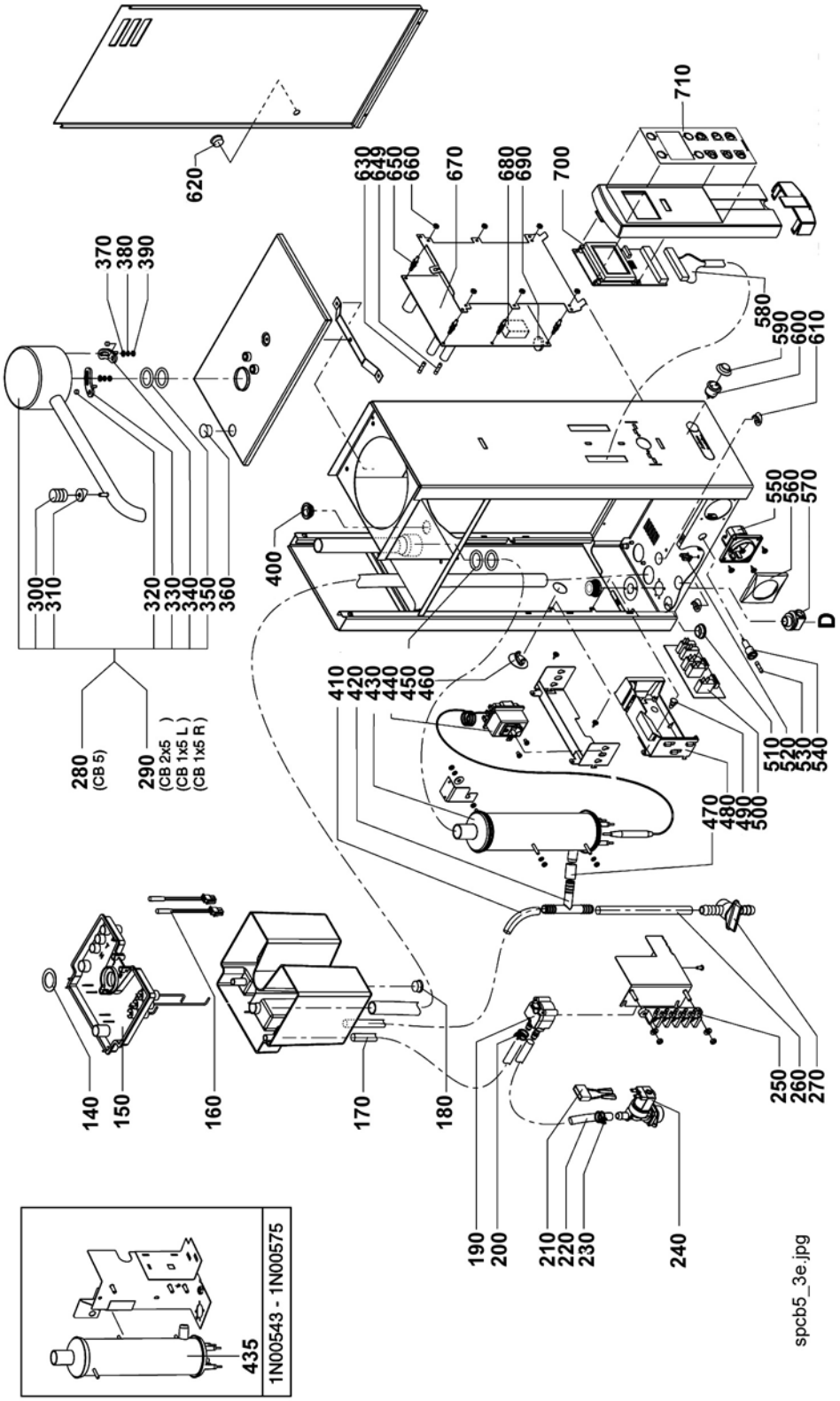

CB 1x5 R (right)
CB 1x5 L (left)
120
CB 5
130


CB 2x5
D
50
60
70
80
90
100
110
spcb5_2e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:Outer parts CB5							
50	07219			CB	2x5		KNOB / CENTRING SHOULDER
60	08775			CB	2x5		FOOT RUBBER ROUND 40x25 BLACK
70	02178			CB	2x5		CABLE + PLUG 3x1.5 1.5m RofH
80	03063			CB	2x5		SWITCH REED CN
90	05328			CB	2x5		WIRE PROTECTOR CLIP
100	05380			CB	2x5		WIRE PROTECTOR -M-
110	13144			CB	2x5		DRIP TRAY
120	13147			CB	1x5L,1x5R		DRIP TRAY
130	08337			CB	5		TULE 36/20 H=11.5

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20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(CB 2x5)
(CB 1x5 L)
(CB 1x5 R)
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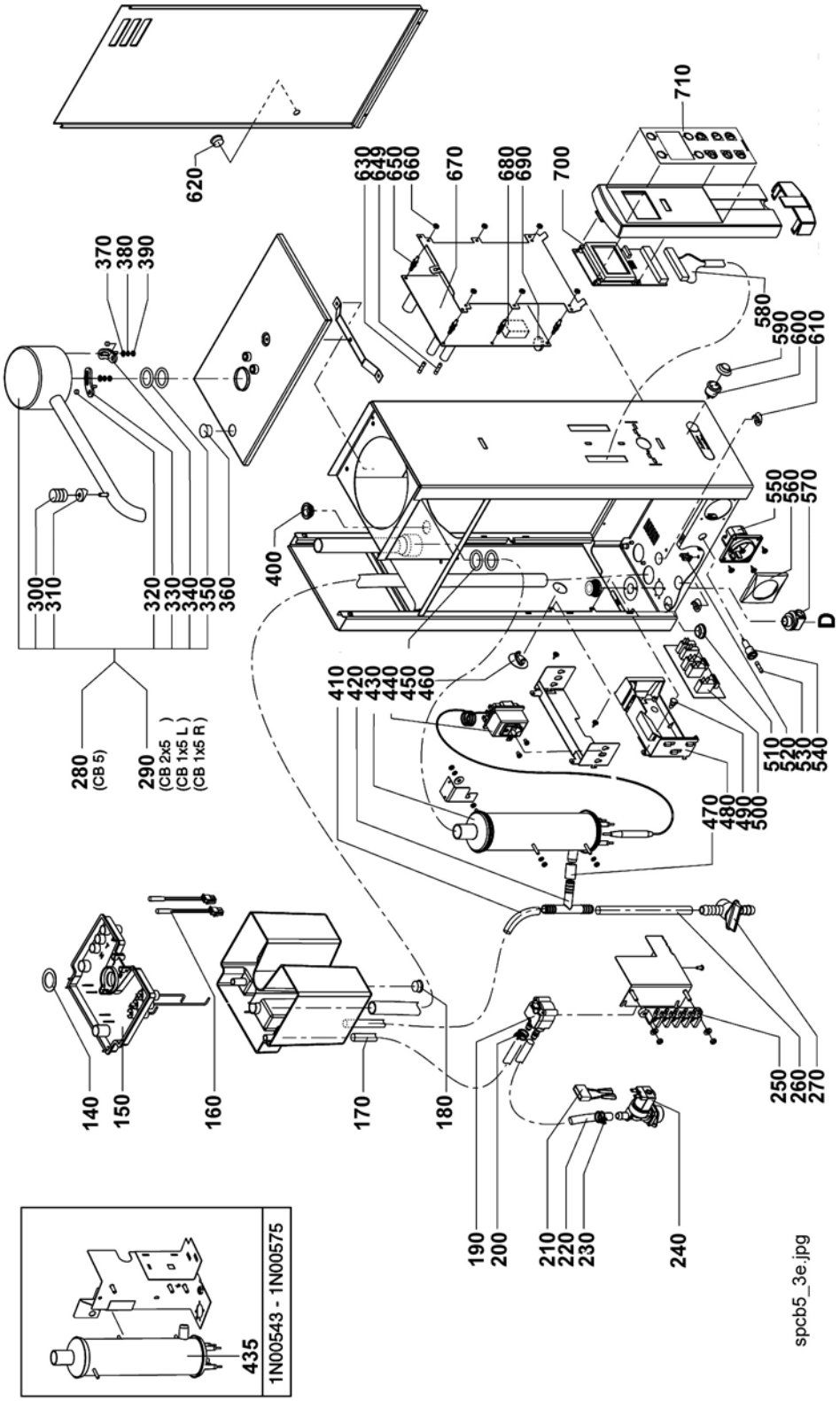
1N00543 - 1N00575
spcb5_3e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:Inner parts CB5							
140	13177			CB	5,1x5L,1x5R,2x5		RING
150	12349			CB	5,1x5L,1x5R,2x5		-
160	03063			CB	5,1x5L,1x5R,2x5		SWITCH REED CN
170	35043			CB	5,1x5L,1x5R,2x5		TUBE SILICONE 12x8 L=350
180	08892			CB	5,1x5L,1x5R,2x5		PLUG ROUND 10
190	02088			CB	5,1x5L,1x5R,2x5		FLOWMETER CB
200	07155			CB	5,1x5L,1x5R,2x5		TUBE CLAMP 11.9 SPRINGSTEEL
210	02267			CB	5,1x5L,1x5R,2x5		RC-NETWORK
220	35068			CB	5,1x5L,1x5R,2x5		TUBE SILICONE 12x8 L=661
230	07248			CB	5,1x5L,1x5R,2x5		TUBE CLAMP 14 SPRINGSTEEL
240	02016			CB	5,1x5L,1x5R,2x5		SOLENOID SINGLE 3L/MIN
250	02089			CB	5,1x5L,1x5R,2x5		CONNECTING BLOCK 5 POLES 40A
260	35018			CB	5,1x5L,1x5R,2x5		TUBE SILICONE 14x9 L=420
270	04236			CB	5,1x5L,1x5R,2x5		BIBB COCK 15/15 PLASTIC B600W
280	13161			CB	5		SWIVELARM CPL.
290	13151			CB	1x5L,1x5R,2x5		SWIVELARM CPL.
300	07219			CB	5,1x5L,1x5R,2x5		KNOB / CENTRING SHOULDER
310	07220			CB	5,1x5L,1x5R,2x5		RING FOR KNOB 07219
320	08426			CB	5,1x5L,1x5R,2x5		MAGNET 5x2 AXIAL
330	08423			CB	5,1x5L,1x5R,2x5		STOP SWIVEL ARM PROTECTION RI
340	08424			CB	5,1x5L,1x5R,2x5		STOP SWIVEL ARM PROTECTION LE
350	08667			CB	5,1x5L,1x5R,2x5		O-RING 23x4 VITRON
360	08088			CB	5,1x5L,1x5R,2x5		PLUG ROUND 17
370	05159			CB	5,1x5L,1x5R,2x5		LOCK RING ST.ST.M4
380	05153			CB	5,1x5L,1x5R,2x5		SPRING RING ST.ST. M4
390	05240			CB	5,1x5L,1x5R,2x5		NUT ST.ST. M4
400	07952			CB	5,1x5L,1x5R,2x5		TULE RUBBER
410	35003			CB	5,1x5L,1x5R,2x5		TUBE SILICONE 14x9 L=130

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20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(CB 5)
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(CB 2x5)
(CB 1x5 L)
(CB 1x5 R)
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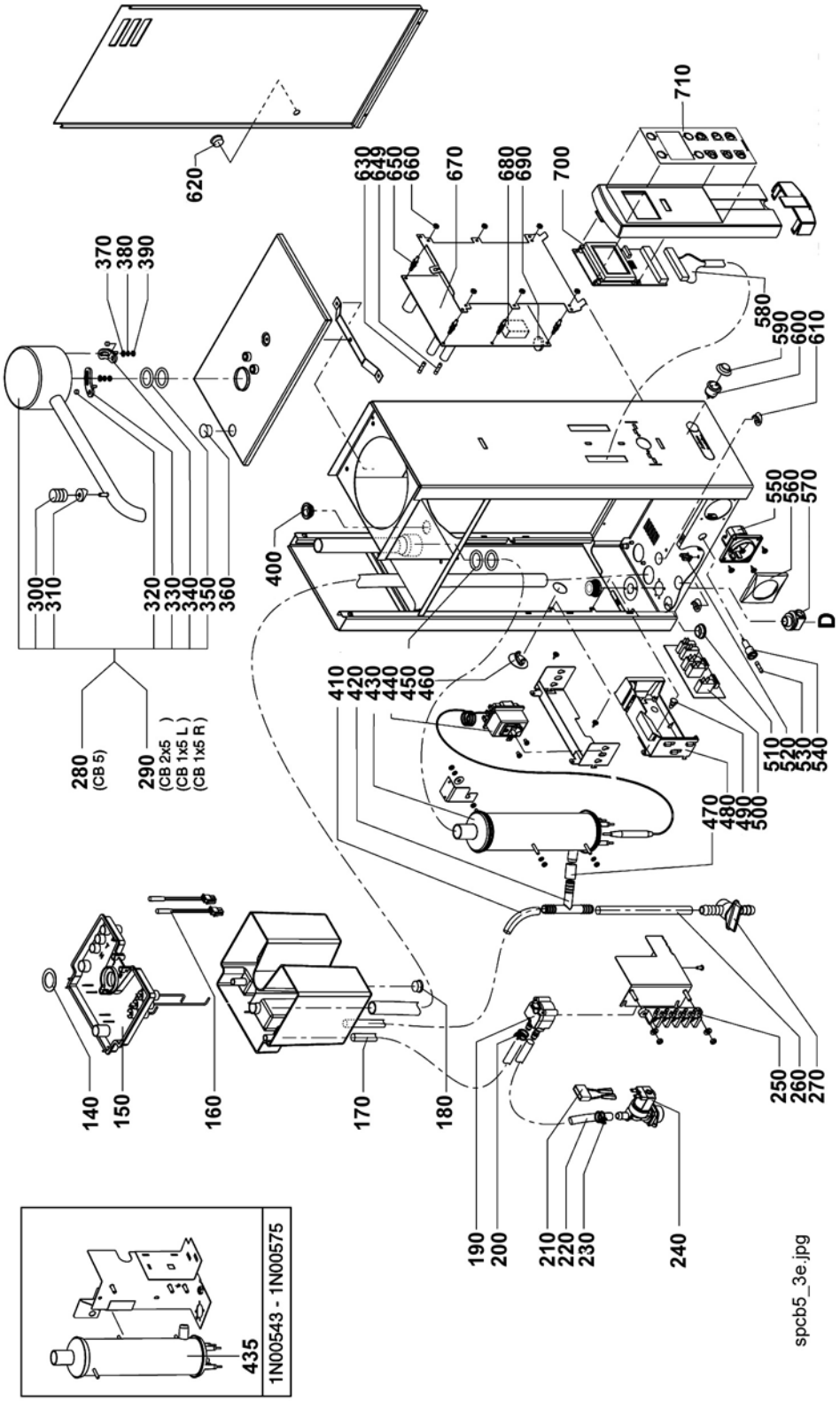
1N00543 - 1N00575
spcb5_3e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:Inner parts CB5							
420	08321			CB	5,1x5L,1x5R,2x5		HOSE CONNECTING PIECE T 13mm
430	03221			CB	5,1x5L,1x5R,2x5		ELEMENT 3000W 230/400V CB
435	03239	1N00543	1N00575	CB	5,1x5L,1x5R,2x5		ELEMENT 3000W 230/400V CB
440	03089			CB	5,1x5L,1x5R,2x5		DRY-BOIL PROTECTION 3-PHASE CB
450	08667			CB	5,1x5L,1x5R,2x5		O-RING 23x4 VITRON
460	08081			CB	5,1x5L,1x5R,2x5		PLUG ROUND 22/26 BLACK
470	35001			CB	5,1x5L,1x5R,2x5		TUBE SILICONE 14x9 L=45
480	07945			CB	5,1x5L,1x5R,2x5		PC BOARD FIXING BOX
490	05204			CB	5,1x5L,1x5R,2x5		PC BOARD MOUNTING (M)
500	03074			CB	5,1x5L,1x5R,2x5		PC BOARD CB I/O PP37
510	07952			CB	5,1x5L,1x5R,2x5		TULE RUBBER
520	05328			CB	5,1x5L,1x5R,2x5		WIRE PROTECTOR CLIP
530	03224			CB	5,1x5L,1x5R,2x5		FUSE 4A SLOW
540	02038			CB	5,1x5L,1x5R,2x5		FUSE HOLDER 5x20
550	02082			CB	5,1x5L,1x5R,2x5		SOCKET
560	02081			CB	5,1x5L,1x5R,2x5		SOCKET COVER
570	08152			CB	5,1x5L,1x5R,2x5		CABLE INLET W.STRAIN REL. PG11
580	03061			CB	5,1x5L,1x5R,2x5		WIRING FLATCABLE CB
590	02083			CB	5,1x5L,1x5R,2x5		SWITCH BONNET
600	02096			CB	5,1x5L,1x5R,2x5		SWITCH 1P 6Amp 250v
610	08080			CB	5,1x5L,1x5R,2x5		PLUG ROUND 18/21 BLACK
620	08892			CB	5,1x5L,1x5R,2x5		PLUG ROUND 10
630	03225			CB	5,1x5L,1x5R,2x5		FUSE 315mA SLOW
640	03224			CB	5,1x5L,1x5R,2x5		FUSE 4A SLOW
650	08674			CB	5,1x5L,1x5R,2x5		PC BOARD FIXING
660	08675			CB	5,1x5L,1x5R,2x5		NUT NYLON FOR 08674
670	03060			CB	5,1x5L,1x5R,2x5		PC BOARD PP34A
680	12507			CB	5,1x5L,1x5R,2x5		-
690	02816			CB	5,1x5L,1x5R,2x5		BATTERY
700	03059			CB	5,1x5L,1x5R,2x5		PC BOARD PP39

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20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280
(CB 5)
290
(CB 2x5)
(CB 1x5 L)
(CB 1x5 R)
140
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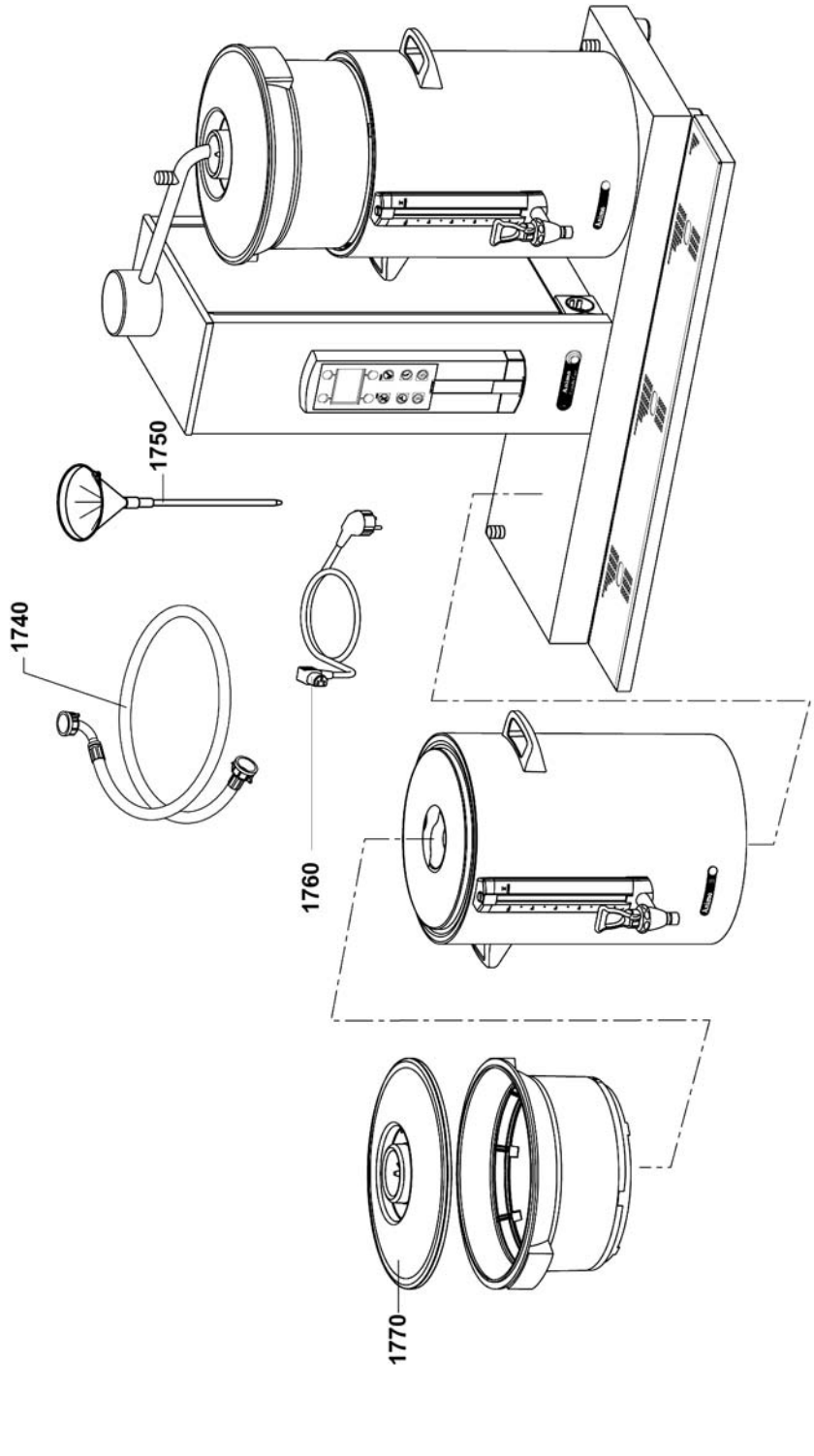
160
170
180
250
260
270
190
200
210
220
230
240
435
1N00543 - 1N00575
spcb5_3e.jpg

ID	Code	SN from	SN to	Model	Type	Accessory	Description
Module:Inner parts CB5							
710	02123			CB	5,1x5L,1x5R,2x5		KEYBOARD CB

CB=CB

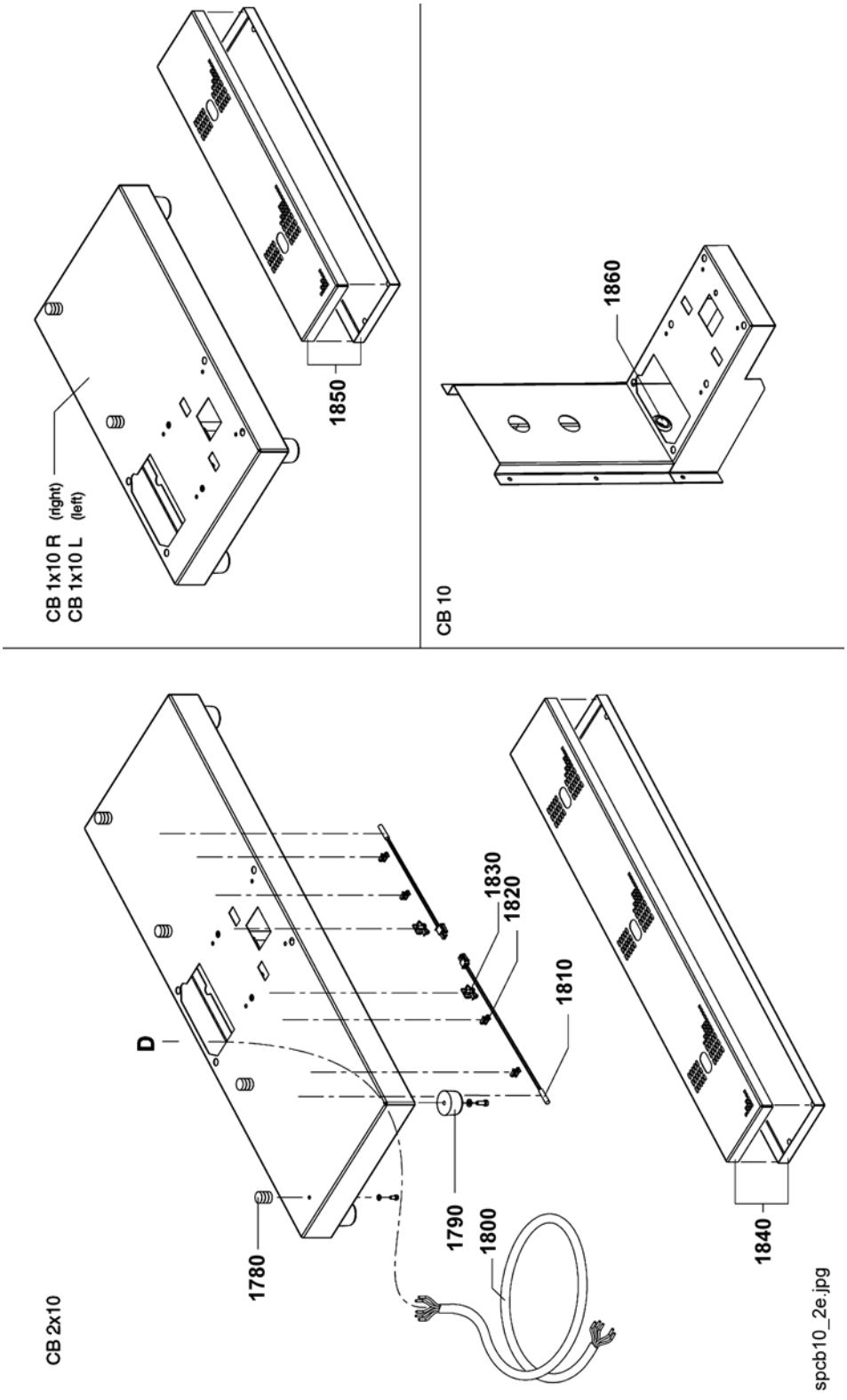
5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20


1750
1740
1760
1770
spcb10_1e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:General parts CB10							
1740	08165			CB	10,1x10L,1x10R,2x10		CONNECTION TUBE (BLUE)
1750	99740			CB	10,1x10L,1x10R,2x10		DESCALLING FUNNEL GL/TK
1760	03071			CB	10,1x10L,1x10R,2x10		CABLE
1770	13142			CB	10,1x10L,1x10R,2x10		WATER DISTRIB. LID CN10e/i CPL

CB=CB

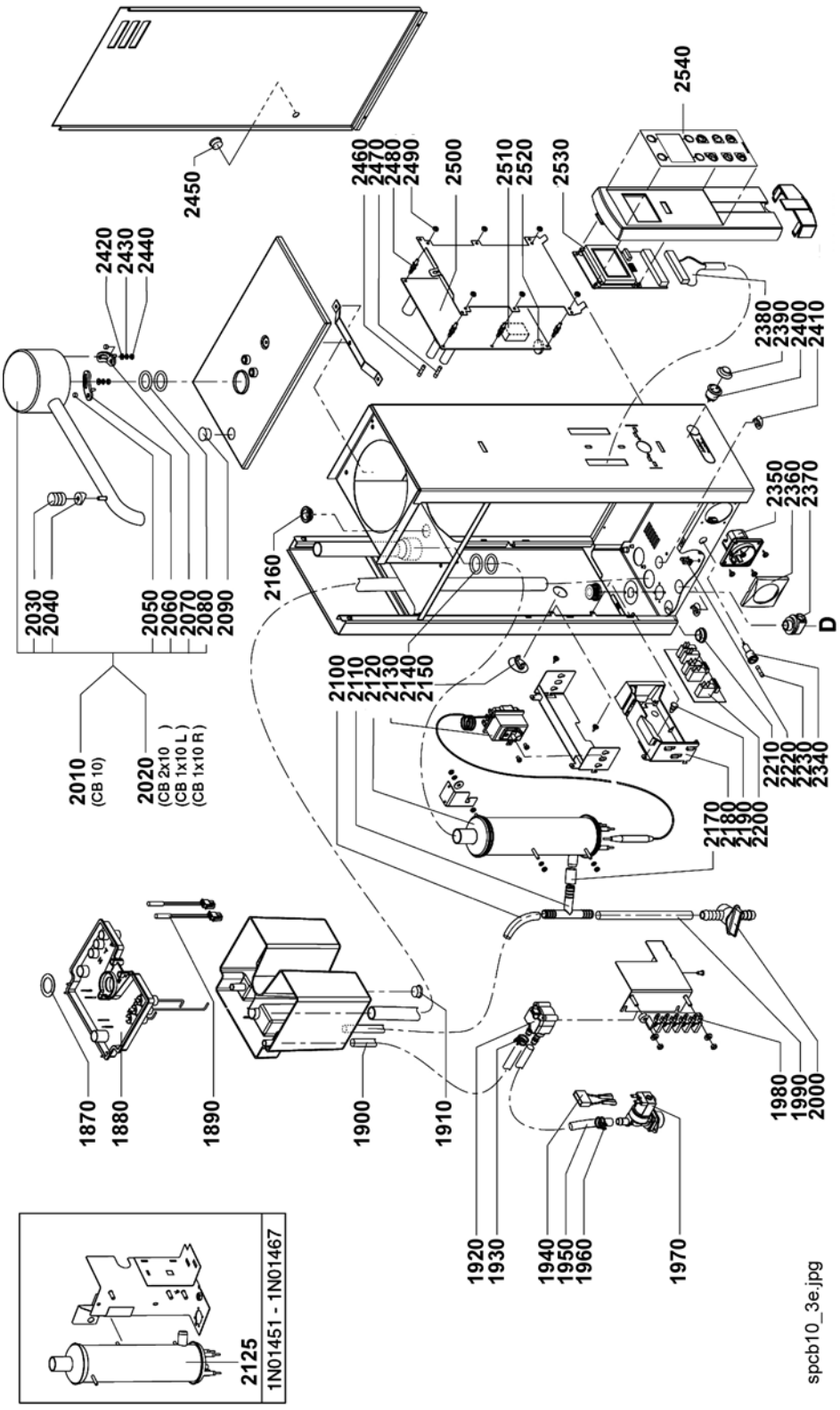
5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20


CB 1x10 R (right)
CB 1x10 L (left)
1850
CB 10
1860
CB 2x10
D
1780
1790
1800
1810
1820
1830
1840
spcb10_2e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:Outer parts CB10							
1780	07219			CB	2x10		KNOB / CENTRING SHOULDER
1790	08775			CB	2x10		FOOT RUBBER ROUND 40x25 BLACK
1800	02196			CB	2x10		CABLE 5x1.5 2m
1810	03063			CB	2x10		SWITCH REED CN
1820	05328			CB	2x10		WIRE PROTECTOR CLIP
1830	05380			CB	2x10		WIRE PROTECTOR -M-
1840	13145			CB	2x10		DRIP TRAY
1850	13148			CB	1x10L,1x10R		DRIP TRAY
1860	08337			CB	10		TULE 36/20 H=11.5

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20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2110
2120
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2150
2010
(CB 10)
2020
(CB 2x10)
(CB 1x10 L)
(CB 1x10 R)
2210
2220
2230
2340
2170
2180
2190
2200
1870
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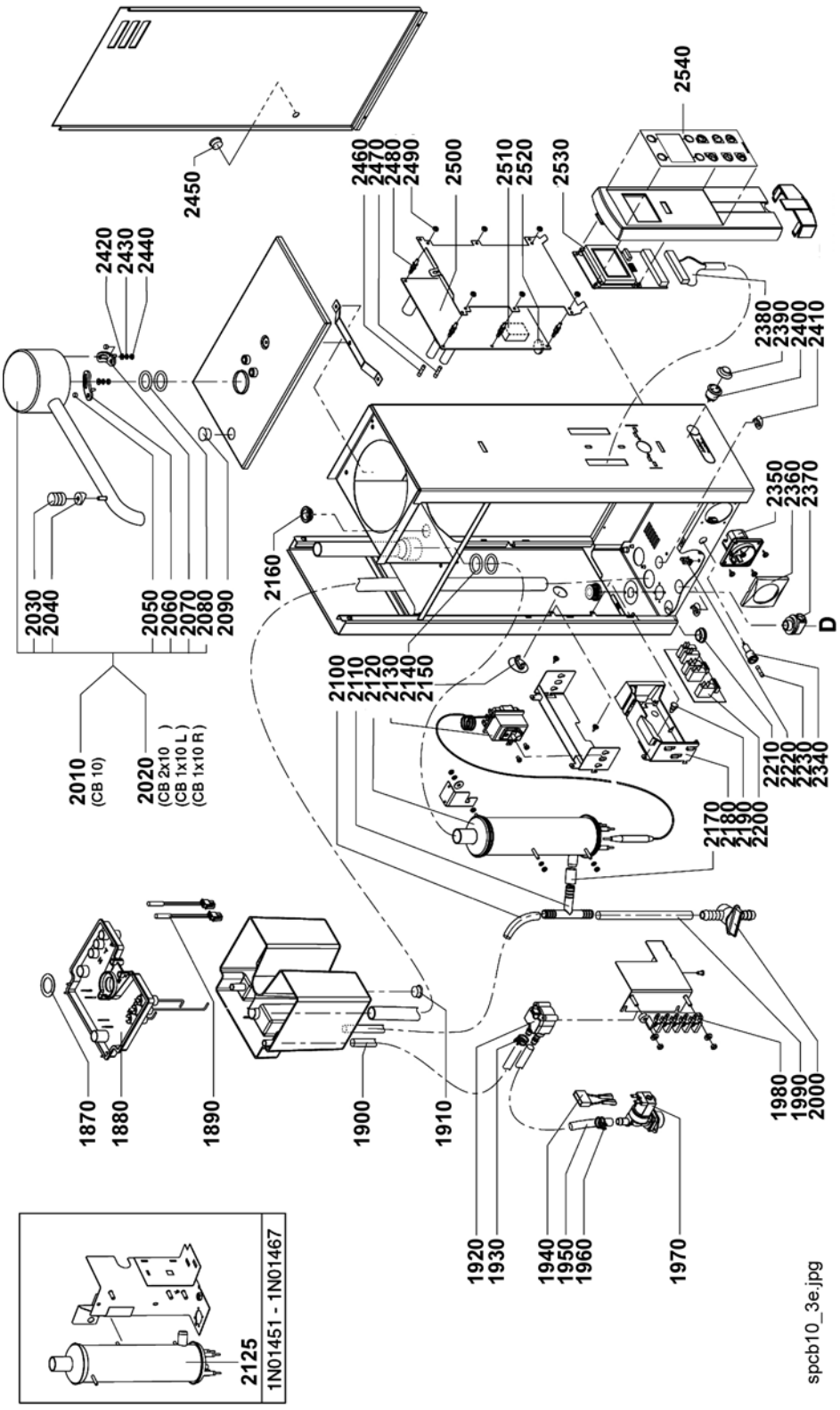
1N01451 - 1N01467
spcb10_3e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:Inner parts CB10							
1870	13177			CB	10,1x10L,1x10R,2x10		RING
1880	12349			CB	10,1x10L,1x10R,2x10		-
1890	03063			CB	10,1x10L,1x10R,2x10		SWITCH REED CN
1900	35064			CB	10,1x10L,1x10R,2x10		TUBE SILICONE 12x8 L=410
1910	08892			CB	10,1x10L,1x10R,2x10		PLUG ROUND 10
1920	02088			CB	10,1x10L,1x10R,2x10		FLOWMETER CB
1930	07155			CB	10,1x10L,1x10R,2x10		TUBE CLAMP 11.9 SPRINGSTEEL
1940	02267			CB	10,1x10L,1x10R,2x10		RC-NETWORK
1950	35037			CB	10,1x10L,1x10R,2x10		TUBE SILICONE 12x8 L=280
1960	07248			CB	10,1x10L,1x10R,2x10		TUBE CLAMP 14 SPRINGSTEEL
1970	02016			CB	10,1x10L,1x10R,2x10		SOLENOID SINGLE 3L/MIN
1980	02089			CB	10,1x10L,1x10R,2x10		CONNECTING BLOCK 5 POLES 40A
1990	35020			CB	10,1x10L,1x10R,2x10		TUBE SILICONE 14x9 L=480
2000	04236			CB	10,1x10L,1x10R,2x10		BIBB COCK 15/15 PLASTIC B600W
2010	13161			CB	10		SVIVELARM
2020	13152			CB	1x10L,1x10R,2x10		SWIVELARM
2030	07219			CB	10,1x10L,1x10R,2x10		KNOB / CENTRING SHOULDER
2040	07220			CB	10,1x10L,1x10R,2x10		RING FOR KNOB 07219
2050	08426			CB	10,1x10L,1x10R,2x10		MAGNET 5x2 AXIAL
2060	08423			CB	10,1x10L,1x10R,2x10		STOP SWIVEL ARM PROTECTION RI
2070	08424			CB	10,1x10L,1x10R,2x10		STOP SWIVEL ARM PROTECTION LE
2080	08667			CB	10,1x10L,1x10R,2x10		O-RING 23x4 VITRON
2090	08088			CB	10,1x10L,1x10R,2x10		PLUG ROUND 17
2100	35082			CB	10,1x10L,1x10R,2x10		TUBE SILICON
2110	08321			CB	10,1x10L,1x10R,2x10		HOSE CONNECTING PIECE T 13mm
2120	03222			CB	10,1x10L,1x10R,2x10		ELEMENT 6000W 230/400V CB
2125	03240	1N1451	1N1467	CB	10,1x10L,1x10R,2x10		ELEMENT
2130	03089			CB	10,1x10L,1x10R,2x10		DRY-BOIL PROTECTION 3-PHASE CB

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20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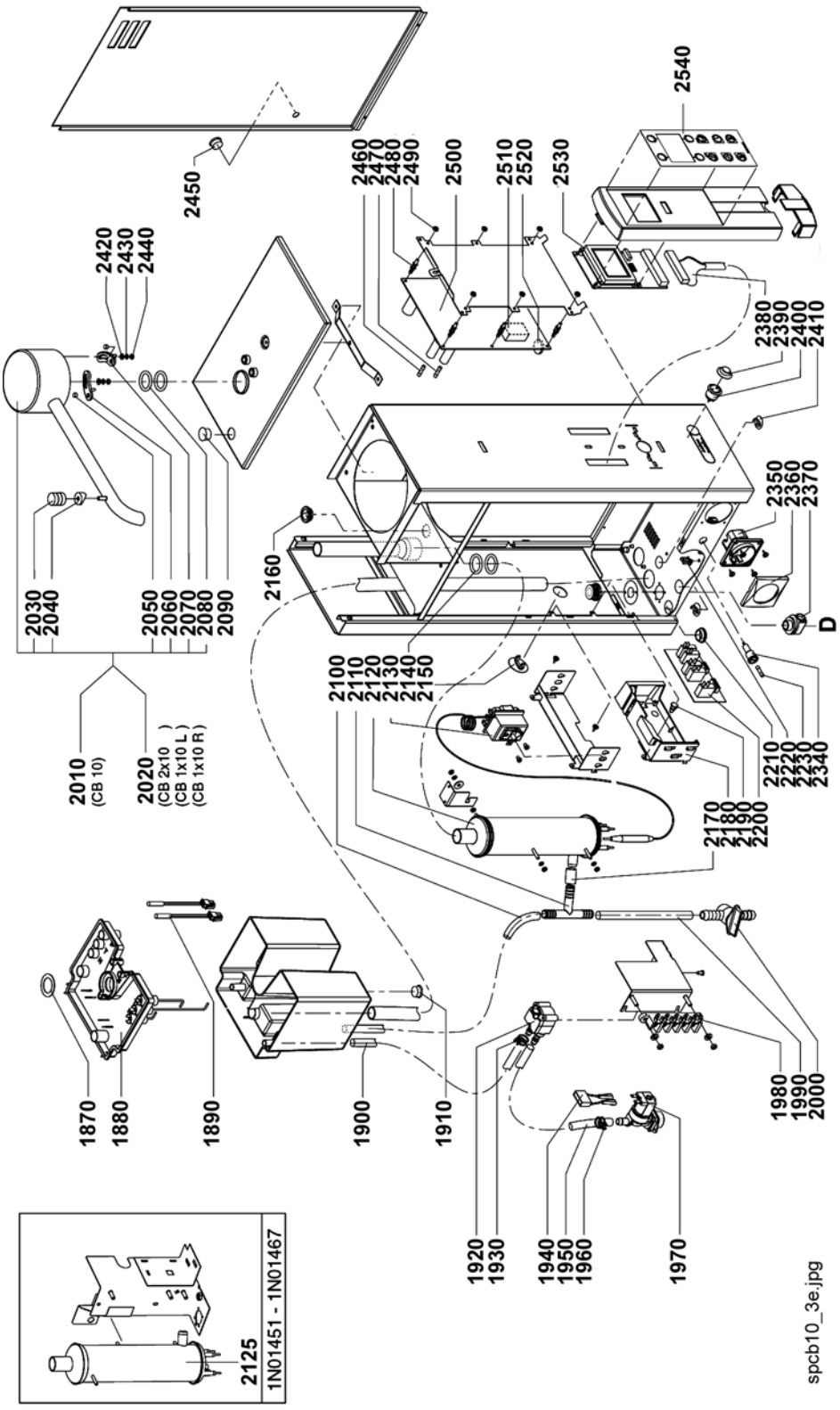
1N01451 - 1N01467
spcb10_3e.jpg

ID	Code	SN from	SN to	Model	Type	Accessory	Description
Module:Inner parts CB10							
2140	08667			CB	10,1x10L,1x10R,2x10		O-RING 23x4 VITRON
2150	08081			CB	10,1x10L,1x10R,2x10		PLUG ROUND 22/26 BLACK
2160	07952			CB	10,1x10L,1x10R,2x10		TULE RUBBER
2170	35001			CB	10,1x10L,1x10R,2x10		TUBE SILICONE 14x9 L=45
2180	07945			CB	10,1x10L,1x10R,2x10		PC BOARD FIXING BOX
2190	05204			CB	10,1x10L,1x10R,2x10		PC BOARD MOUNTING (M)
2200	03074			CB	10,1x10L,1x10R,2x10		PC BOARD CB I/O PP37
2210	07952			CB	10,1x10L,1x10R,2x10		TULE RUBBER
2220	05328			CB	10,1x10L,1x10R,2x10		WIRE PROTECTOR CLIP
2230	03224			CB	10,1x10L,1x10R,2x10		FUSE 4A SLOW
2340	02038			CB	10,1x10L,1x10R,2x10		FUSE HOLDER 5x20
2350	02082			CB	10,1x10L,1x10R,2x10		SOCKET
2360	02081			CB	10,1x10L,1x10R,2x10		SOCKET COVER
2370	08152			CB	10,1x10L,1x10R,2x10		CABLE INLET W.STRAIN REL. PG11
2380	03061			CB	10,1x10L,1x10R,2x10		WIRING FLATCABLE CB
2390	02083			CB	10,1x10L,1x10R,2x10		SWITCH BONNET
2400	02096			CB	10,1x10L,1x10R,2x10		SWITCH 1P 6Amp 250v
2410	08080			CB	10,1x10L,1x10R,2x10		PLUG ROUND 18/21 BLACK
2420	05159			CB	10,1x10L,1x10R,2x10		LOCK RING ST.ST.M4
2430	05153			CB	10,1x10L,1x10R,2x10		SPRING RING ST.ST. M4
2440	05240			CB	10,1x10L,1x10R,2x10		NUT ST.ST. M4
2450	08892			CB	10,1x10L,1x10R,2x10		PLUG ROUND 10
2460	03225			CB	10,1x10L,1x10R,2x10		FUSE 315mA SLOW
2470	03224			CB	10,1x10L,1x10R,2x10		FUSE 4A SLOW
2480	08674			CB	10,1x10L,1x10R,2x10		PC BOARD FIXING
2490	08675			CB	10,1x10L,1x10R,2x10		NUT NYLON FOR 08674
2500	03060			CB	10,1x10L,1x10R,2x10		PC BOARD PP34A
2510	12507			CB	10,1x10L,1x10R,2x10		-
2520	02816			CB	10,1x10L,1x10R,2x10		BATTERY
2530	03059			CB	10,1x10L,1x10R,2x10		PC BOARD PP39

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20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2100
2110
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2010
(CB 10)
2020
(CB 2x10)
(CB 1x10 L)
(CB 1x10 R)
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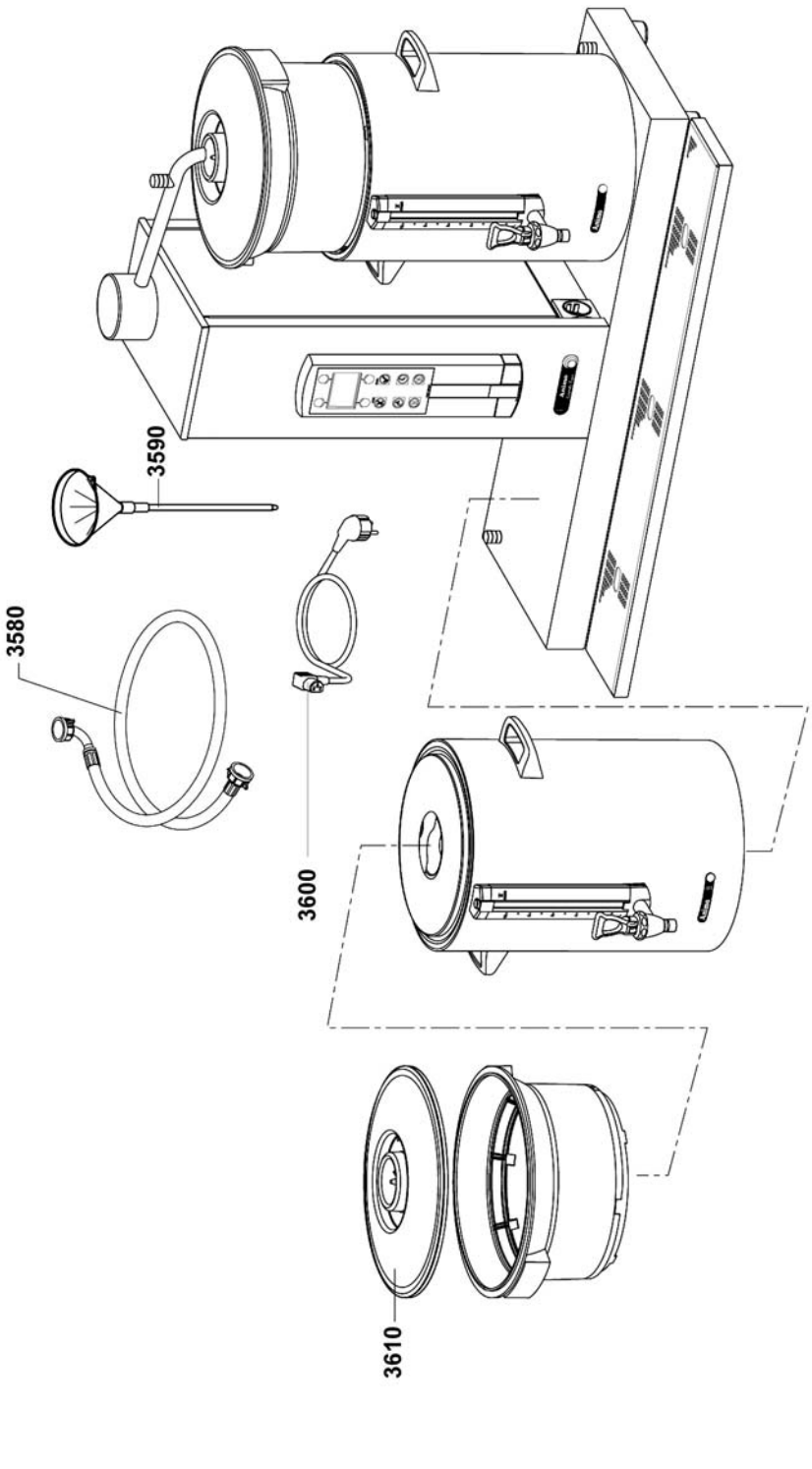
spcb10_3e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:Inner parts CB10							
2540	02123			CB	10,1x10L,1x10R,2x10		KEYBOARD CB

CB=CB

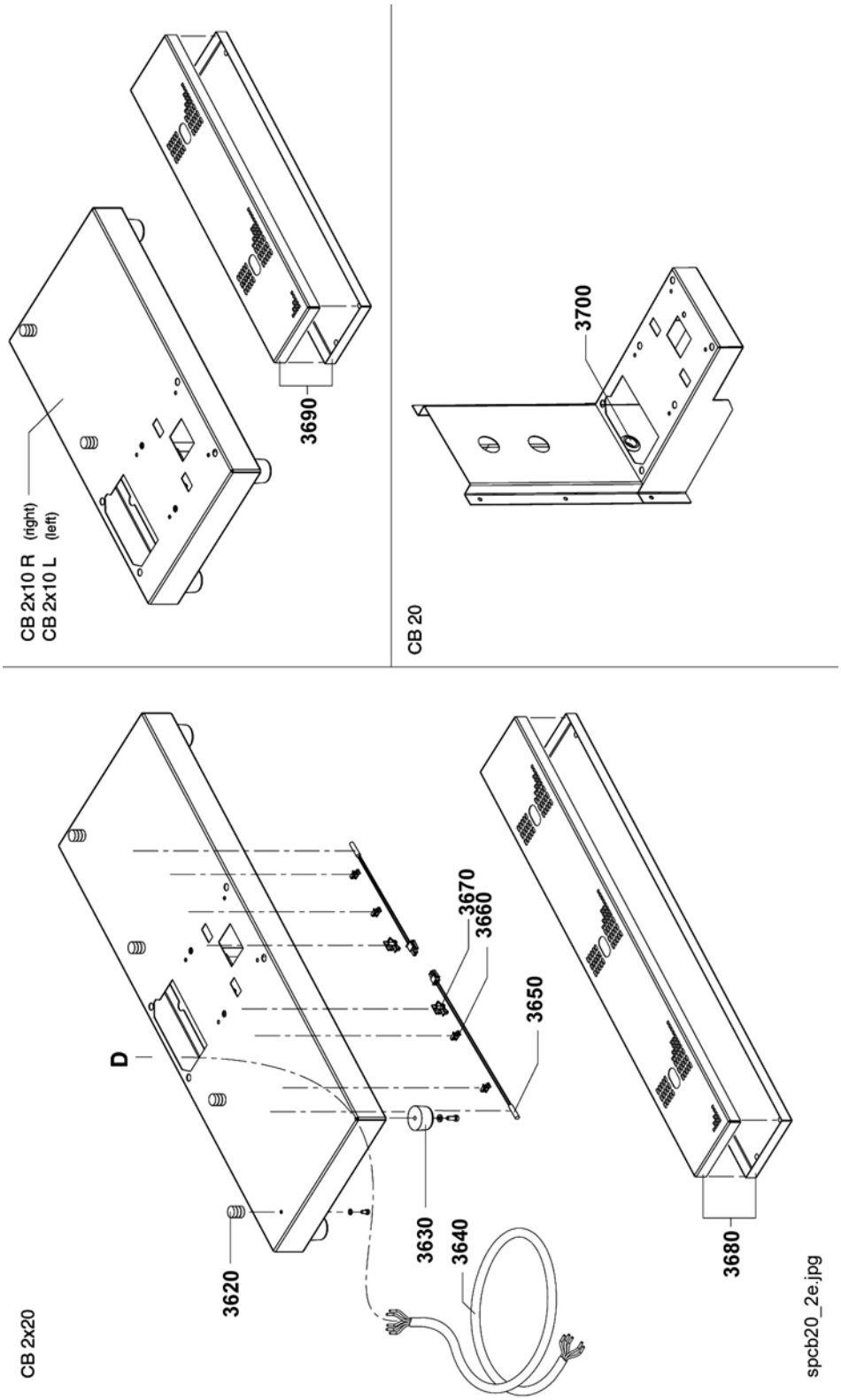
5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20


3590
3580
3600
3610
spcb20_1e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:General parts CB20							
3580	08165			CB	20,1x20L,1x20R,2x20		CONNECTION TUBE (BLUE)
3590	99740			CB	20,1x20L,1x20R,2x20		DESCALLING FUNNEL GL/TK
3600	03071			CB	20,1x20L,1x20R,2x20		CABLE
3610	13143			CB	20,1x20L,1x20R,2x20		WATER DISTRIB. LID CN20e/i CPL

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20


CB 2x10 R (right)
CB 2x10 L (left)
3690
CB 20
3700
CB 2x20
D
3620
3630
3640
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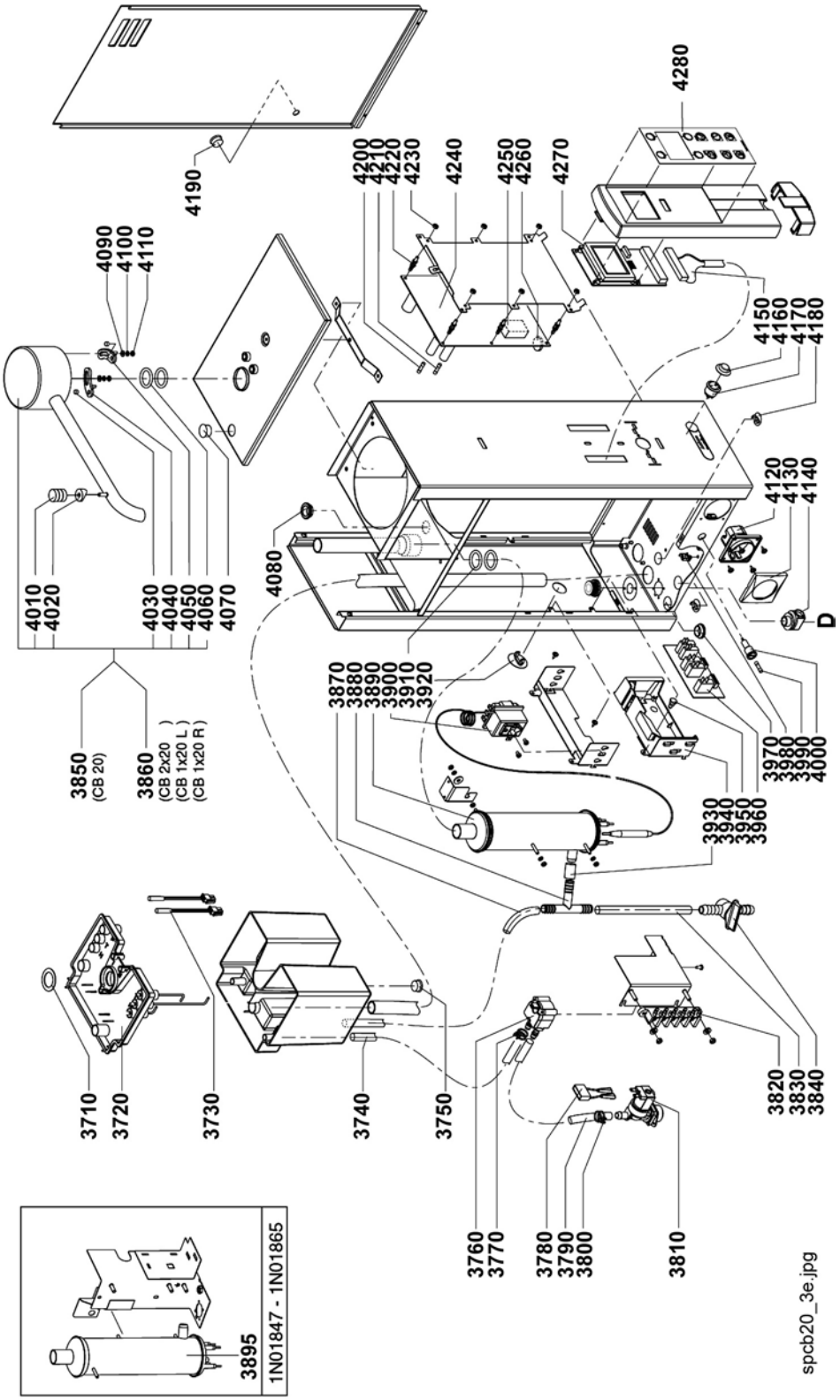
spcb20_2e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:Outer parts CB20							
3620	07219			CB	2x20		KNOB / CENTRING SHOULDER
3630	08775			CB	2x20		FOOT RUBBER ROUND 40x25 BLACK
3640	02236			CB	2x20		CABLE 5x2.5 2m
3650	03063			CB	2x20		SWITCH REED CN
3660	05328			CB	2x20		WIRE PROTECTOR CLIP
3670	05380			CB	2x20		WIRE PROTECTOR -M-
3680	13146			CB	2x20		DRIP TRAY
3690	13149			CB	1x20L,1x20R		DRIP TRAY
3700	08337			CB	20		TULE 36/20 H=11.5

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20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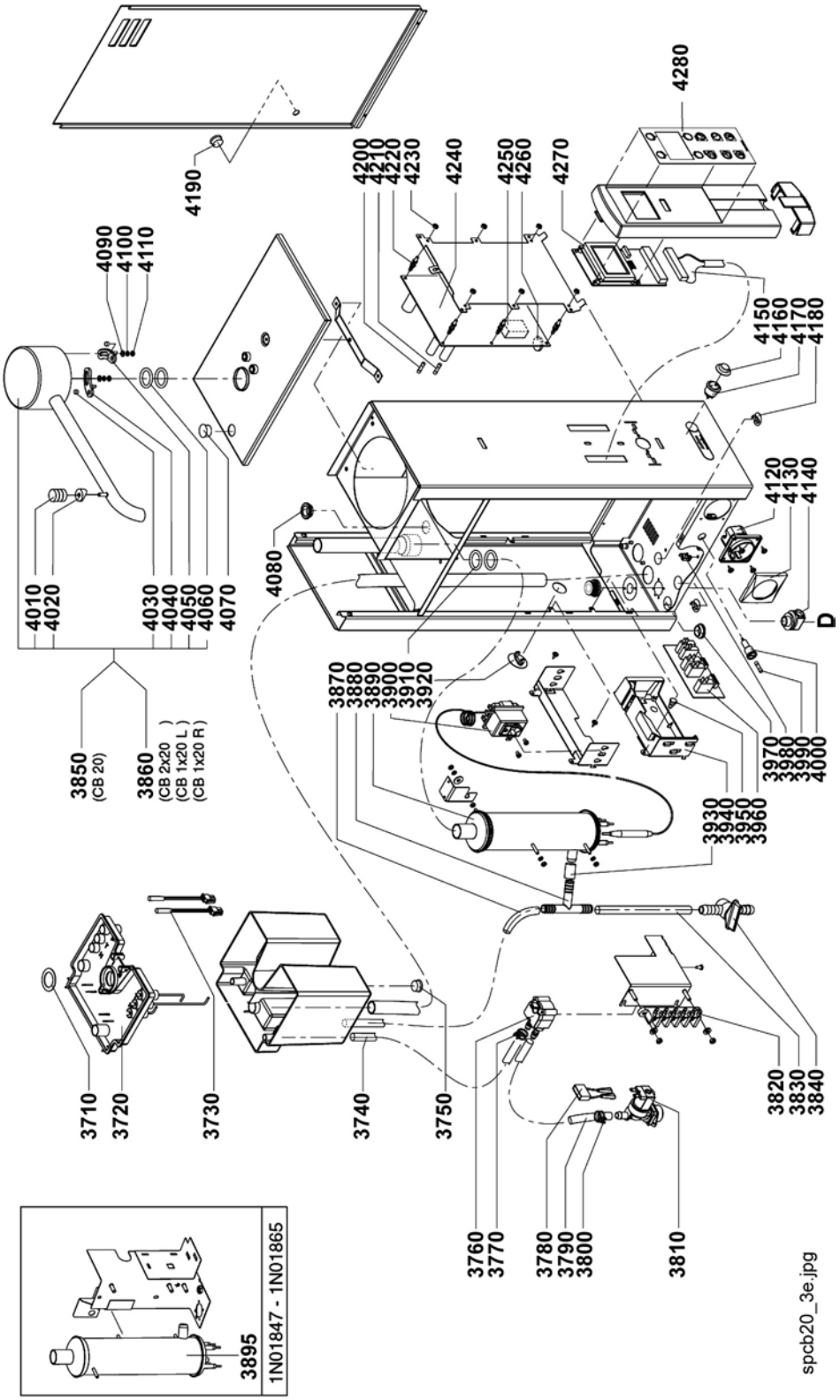
spcb20_3e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:Inner parts CB20							
3710	13177			CB	20,1x20L,1x20R,2x20		RING
3720	12349			CB	20,1x20L,1x20R,2x20		-
3730	03063			CB	20,1x20L,1x20R,2x20		SWITCH REED CN
3740	35056			CB	20,1x20L,1x20R,2x20		TUBE SILICONE 12x8 L=470
3750	08892			CB	20,1x20L,1x20R,2x20		PLUG ROUND 10
3760	02088			CB	20,1x20L,1x20R,2x20		FLOWMETER CB
3770	07155			CB	20,1x20L,1x20R,2x20		TUBE CLAMP 11.9 SPRINGSTEEL
3780	02267			CB	20,1x20L,1x20R,2x20		RC-NETWORK
3790	35043			CB	20,1x20L,1x20R,2x20		TUBE SILICONE 12x8 L=350
3800	07248			CB	20,1x20L,1x20R,2x20		TUBE CLAMP 14 SPRINGSTEEL
3810	02016			CB	20,1x20L,1x20R,2x20		SOLENOID SINGLE 3L/MIN
3820	02089			CB	20,1x20L,1x20R,2x20		CONNECTING BLOCK 5 POLES 40A
3830	35061			CB	20,1x20L,1x20R,2x20		TUBE SILICONE 14x9 L=530
3840	04236			CB	20,1x20L,1x20R,2x20		BIBB COCK 15/15 PLASTIC B600W
3850	13161			CB	20		SVIVEL ARM
3860	13153			CB	1x20L,1x20R,2x20		SVIVEL ARM
3870	35079			CB	20,1x20L,1x20R,2x20		TUBE SILICONE
3880	08321			CB	20,1x20L,1x20R,2x20		HOSE CONNECTING PIECE T 13mm
3890	03223			CB	20,1x20L,1x20R,2x20		ELEMENT 9000W 230/400V CB
3895	03241	1N01847	1N01865	CB	20,1x20L,1x20R,2x20		ELEMENT
3900	03089			CB	20,1x20L,1x20R,2x20		DRY-BOIL PROTECTION 3-PHASE CB
3910	08667			CB	20,1x20L,1x20R,2x20		O-RING 23x4 VITRON
3920	08081			CB	20,1x20L,1x20R,2x20		PLUG ROUND 22/26 BLACK
3930	35001			CB	20,1x20L,1x20R,2x20		TUBE SILICONE 14x9 L=45
3940	07945			CB	20,1x20L,1x20R,2x20		PC BOARD FIXING BOX
3950	05204			CB	20,1x20L,1x20R,2x20		PC BOARD MOUNTING (M)
3960	03074			CB	20,1x20L,1x20R,2x20		PC BOARD CB I/O PP37
3970	07952			CB	20,1x20L,1x20R,2x20		TULE RUBBER

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20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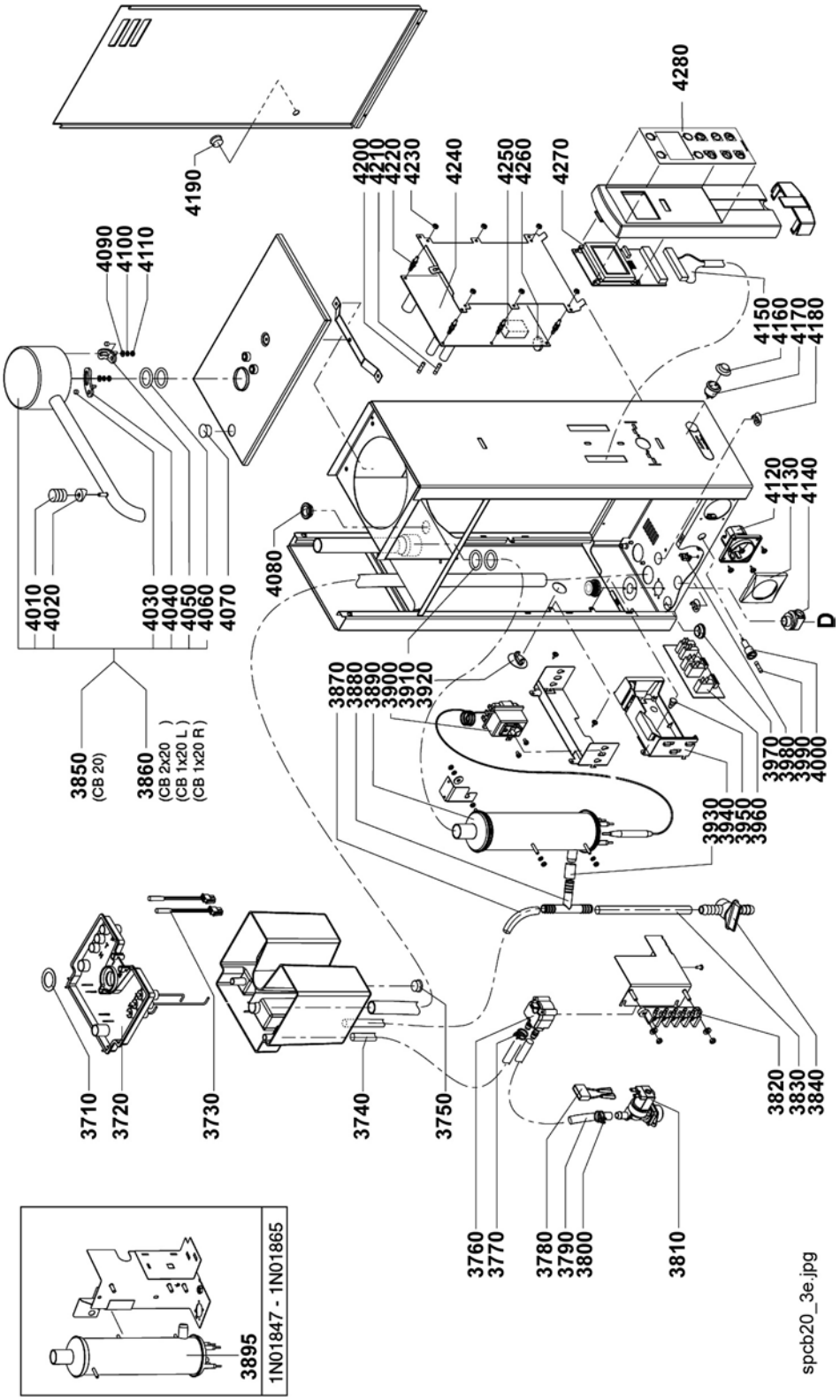
1N01847 - 1N01865
spcb20_3e.jpg

ID	Code	SN from	SN to	Model	Type	Accessory	Description
Module:Inner parts CB20							
3980	05328			CB	20,1x20L,1x20R,2x20		WIRE PROTECTOR CLIP
3990	03224			CB	20,1x20L,1x20R,2x20		FUSE 4A SLOW
4000	02038			CB	20,1x20L,1x20R,2x20		FUSE HOLDER 5x20
4010	07219			CB	20,1x20L,1x20R,2x20		KNOB / CENTRING SHOULDER
4020	07220			CB	20,1x20L,1x20R,2x20		RING FOR KNOB 07219
4030	08426			CB	20,1x20L,1x20R,2x20		MAGNET 5x2 AXIAL
4040	08423			CB	20,1x20L,1x20R,2x20		STOP SWIVEL ARM PROTECTION RI
4050	08424			CB	20,1x20L,1x20R,2x20		STOP SWIVEL ARM PROTECTION LE
4060	08667			CB	20,1x20L,1x20R,2x20		O-RING 23x4 VITRON
4070	08088			CB	20,1x20L,1x20R,2x20		PLUG ROUND 17
4080	07952			CB	20,1x20L,1x20R,2x20		TULE RUBBER
4090	05159			CB	20,1x20L,1x20R,2x20		LOCK RING ST.ST.M4
4100	05153			CB	20,1x20L,1x20R,2x20		SPRING RING ST.ST. M4
4110	05240			CB	20,1x20L,1x20R,2x20		NUT ST.ST. M4
4120	02082			CB	20,1x20L,1x20R,2x20		SOCKET
4130	02081			CB	20,1x20L,1x20R,2x20		SOCKET COVER
4140	08153			CB	20,1x20L,1x20R,2x20		CABLE INLET W.STRAIN REL. PG16
4150	03061			CB	20,1x20L,1x20R,2x20		WIRING FLATCABLE CB
4160	02083			CB	20,1x20L,1x20R,2x20		SWITCH BONNET
4170	02096			CB	20,1x20L,1x20R,2x20		SWITCH 1P 6Amp 250v
4180	08080			CB	20,1x20L,1x20R,2x20		PLUG ROUND 18/21 BLACK
4190	08892			CB	20,1x20L,1x20R,2x20		PLUG ROUND 10
4200	03225			CB	20,1x20L,1x20R,2x20		FUSE 315mA SLOW
4210	03224			CB	20,1x20L,1x20R,2x20		FUSE 4A SLOW
4220	08674			CB	20,1x20L,1x20R,2x20		PC BOARD FIXING
4230	08675			CB	20,1x20L,1x20R,2x20		NUT NYLON FOR 08674
4240	03060			CB	20,1x20L,1x20R,2x20		PC BOARD PP34A
4250	12507			CB	20,1x20L,1x20R,2x20		-
4260	02816			CB	20,1x20L,1x20R,2x20		BATTERY
4270	03059			CB	20,1x20L,1x20R,2x20		PC BOARD PP39

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20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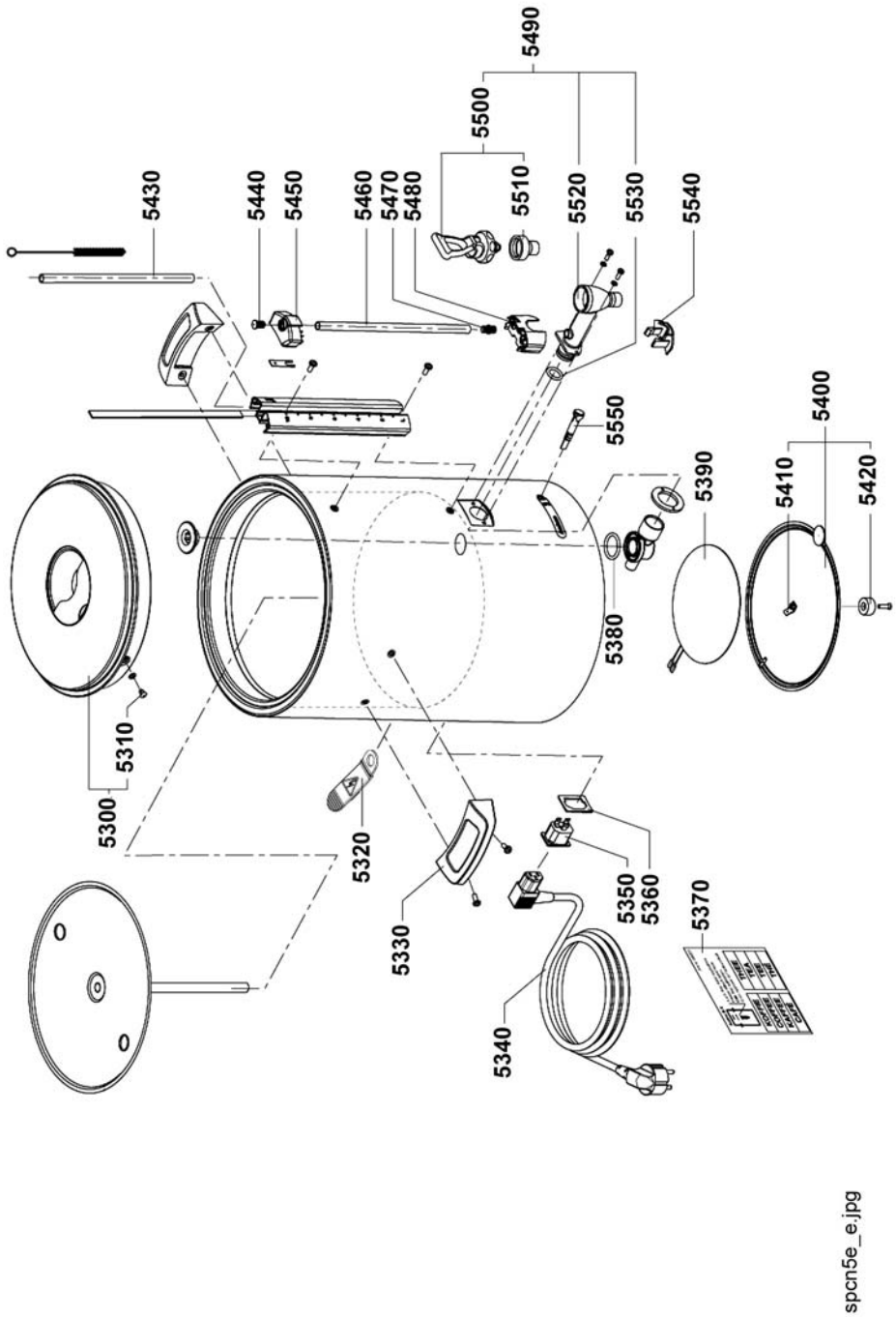
spcb20_3e.jpg

ID	Code	SN from	SN to	Model	Type	Ac-cessory	Description
Module:Inner parts CB20							
4280	02123			CB	20,1x20L,1x20R,2x20		KEYBOARD CB

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20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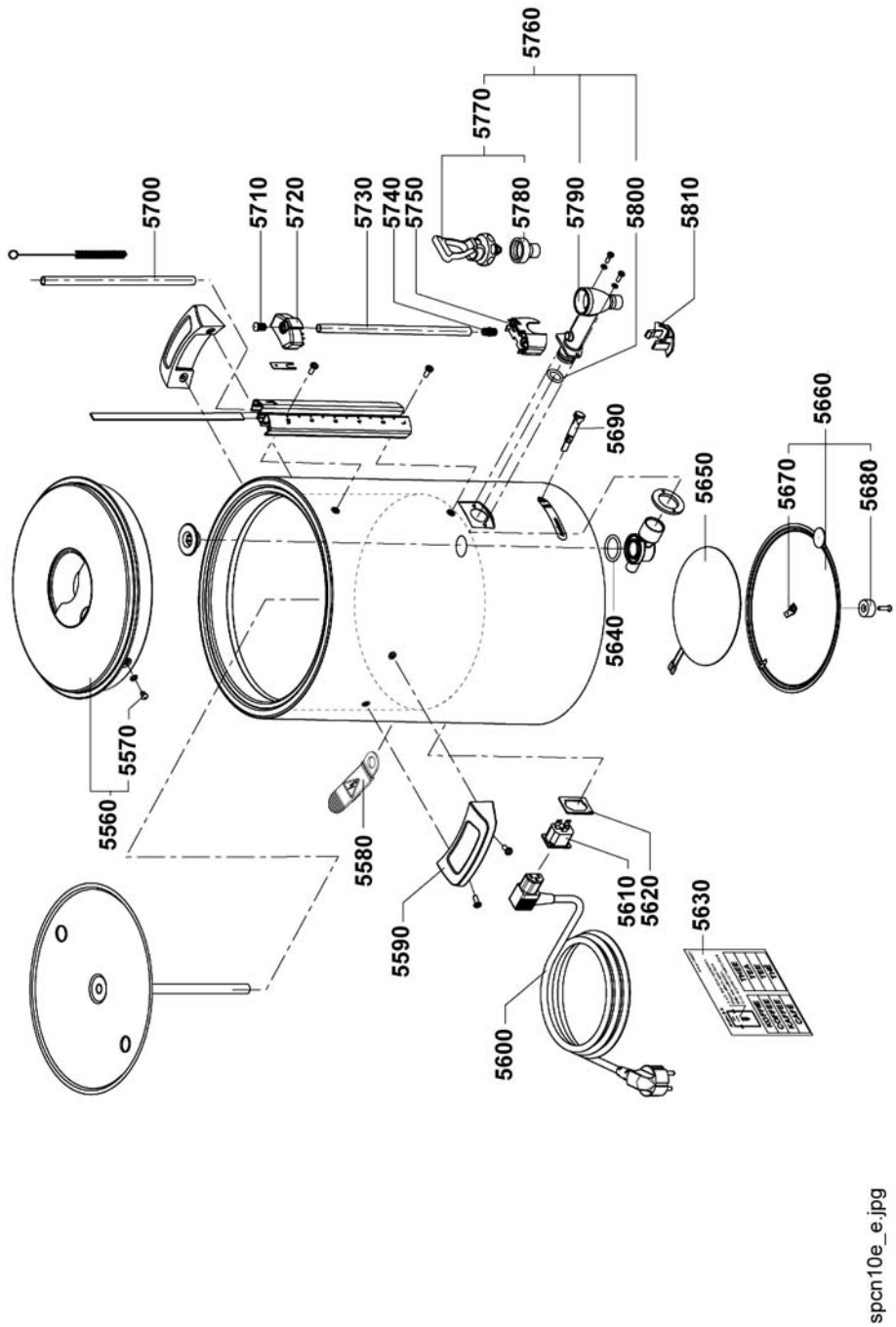
spcn5e_e.jpg

ID	Code	SN from	SN to	Model	Type	Accessory	Description
Module:Container CN5e							
5300	54734			CB			LID CE/CI 4/6
5310	08155			CB			SPREADNAIL BLACK
5320	04291			CB			SEALER FOR INLET PLUG
5330	07961			CB			HANDLE CN 5
5340	03072			CB			CABLE + PLUG 3x0.75 1.5m R+H
5350	02119			CB			INLET PLUG FEMALE T65
5360	04291			CB			SEALER FOR INLET PLUG
5370	08583			CB			STICKER COFFEE/TEA
5380	04289			CB			O-RING 26.57x3.53 EPDM
5390	54199			CB			HEATING ELEMENT
5400	12879			CB			BOTTOM PLATE CN 5e INCL MAGNET
5410	05131			CB			FASTON TAB 6.3 WITH HOLE 4MM
5420	08427			CB			MAGNET 20x4.3x10 AXIAL
5430	12884			CB			GAUGE GLASS L=208
5440	04280			CB			GAUGE GLASS TULE TOP
5450	07954			CB			GAUGE.GL. PROTECTOR TOP PART
5460	12884			CB			GAUGE GLASS L=208
5470	04279			CB			GAUGE GLASS TULE UNDER
5480	07953			CB			TAP CAP
5490	99684			CB			TAP No-DRIP CPL CN
5500	04032			CB			UPPER ASSEMBLY 1/2 CPL
5510	04034			CB			SEAT CUP 1/2 SILICON
5520	54169			CB			-
5530	04290			CB			O-RING 17.04x3.53 EPDM
5540	07967			CB			GAUGE.GL. PROTECTOR UNDER PART
5550	02037			CB			PILOTLAMP 230V ORANGE ROUND 13

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20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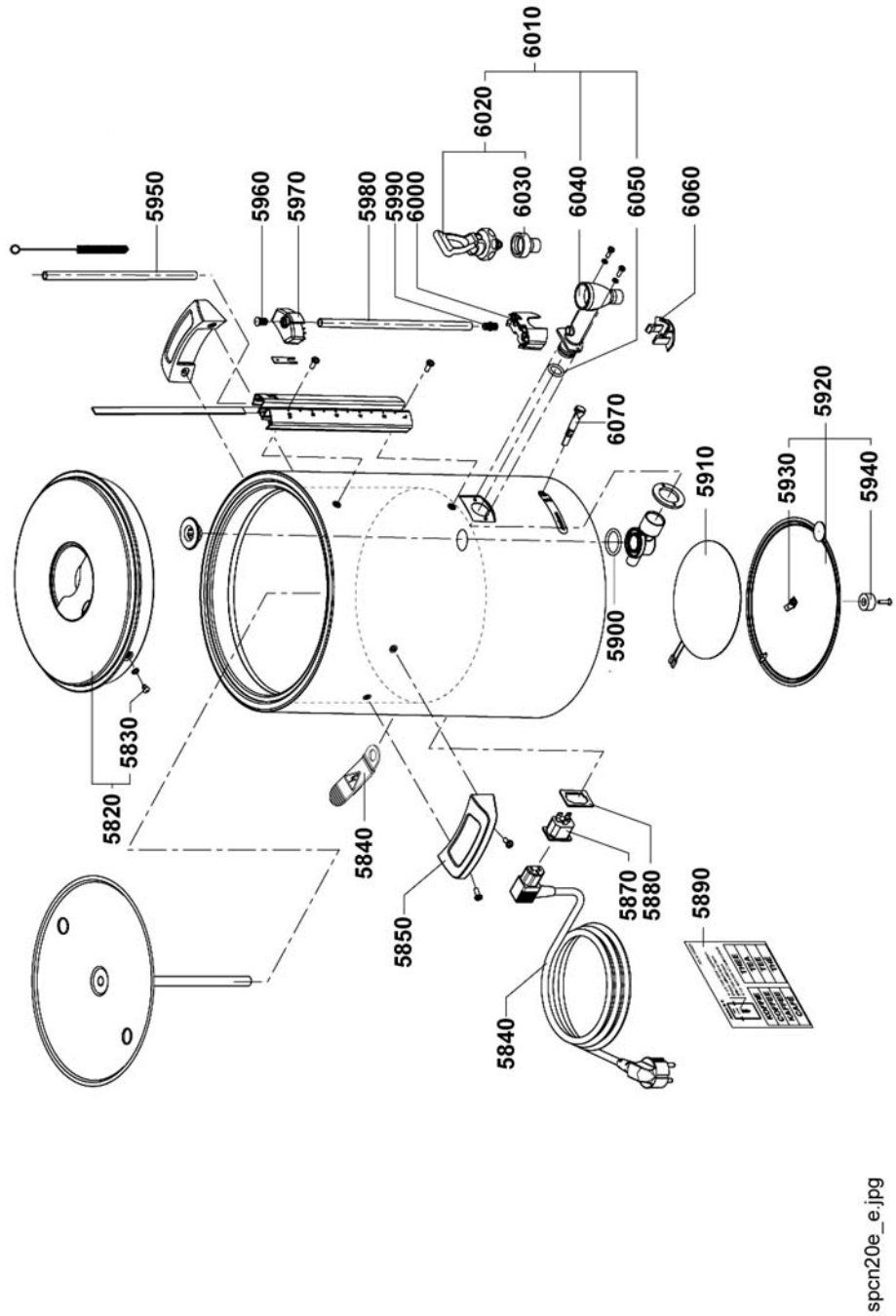
ID	Code	SN from	SN to	Model	Type	Accessory	Description
Module:Container CN10e							
5560	54736			CB			LID CE/CI 12/25
5570	08155			CB			SPREADNAIL BLACK
5580	04291			CB			SEALER FOR INLET PLUG
5590	07962			CB			HANDLE CN 10
5600	03072			CB			CABLE + PLUG 3x0.75 1.5m R+H
5610	02119			CB			INLET PLUG FEMALE T65
5620	04291			CB			SEALER FOR INLET PLUG
5630	08583			CB			STICKER COFFEE/TEA
5640	04289			CB			O-RING 26.57x3.53 EPDM
5650	54203			CB			HEATING ELEMENT
5660	12882			CB			BOTTOM PLATE CN10e INCL MAGNET
5670	05131			CB			FASTON TAB 6.3 WITH HOLE 4MM
5680	08427			CB			MAGNET 20x4.3x10 AXIAL
5690	02037			CB			PILOTLAMP 230V ORANGE ROUND 13
5700	12885			CB			GAUGE GLASS L=229
5710	04280			CB			GAUGE GLASS TULE TOP
5720	07954			CB			GAUGE.GL. PROTECTOR TOP PART
5730	12885			CB			GAUGE GLASS L=229
5740	04279			CB			GAUGE GLASS TULE UNDER
5750	07953			CB			TAP CAP
5760	99684			CB			TAP No-DRIP CPL CN
5770	04032			CB			UPPER ASSEMBLY 1/2 CPL
5780	04034			CB			SEAT CUP 1/2 SILICON
5790	54169			CB			-
5800	04290			CB			O-RING 17.04x3.53 EPDM
5810	07967			CB			GAUGE.GL. PROTECTOR UNDER PART

CB=CB

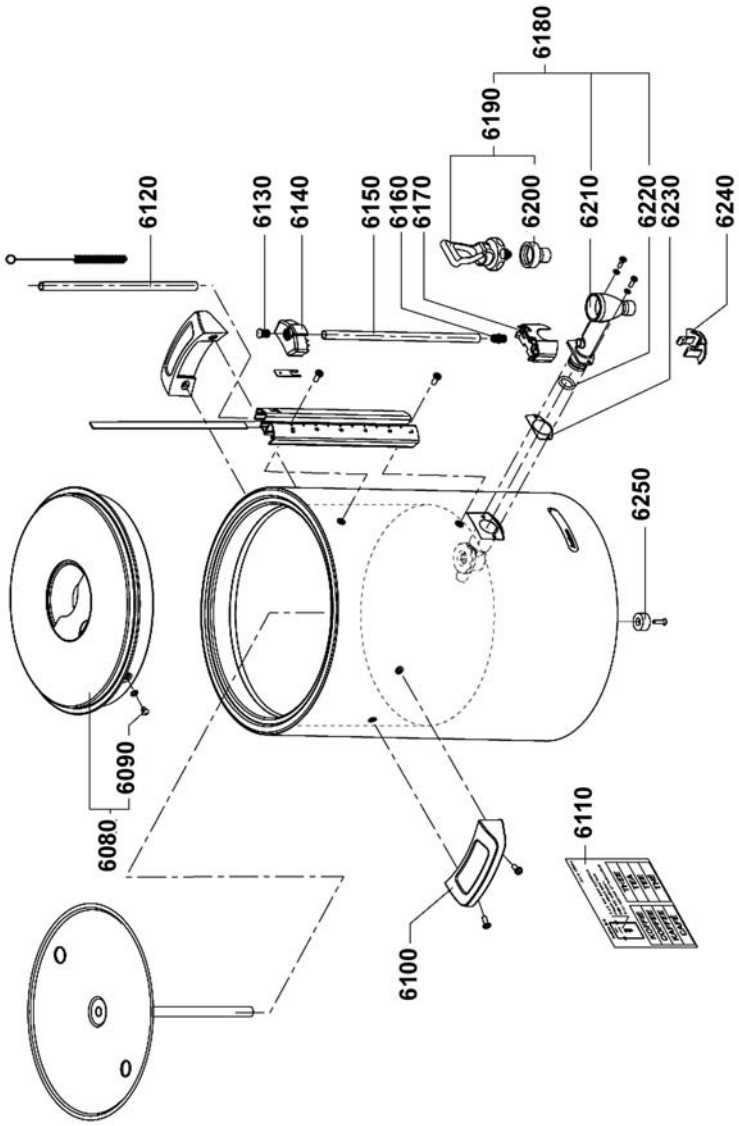
5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20


6010
6020
5950
5960
5970
5980
5990
6000
6030
6040
6050
6060
6070
5920
5910
5930
5940
5900
5830
5820
5840
5870
5880
5890
5850
5840
spcn20e_e.jpg

ID	Code	SN from	SN to	Model	Type	Accessory	Description
Module:Container CN20e							
5820	54725			CB			LID CN20
5830	08155			CB			SPREADNAIL BLACK
5840	04291			CB			SEALER FOR INLET PLUG
5850	07963			CB			HANDLE CN 20
5860	03072			CB			CABLE + PLUG 3x0.75 1.5m R+H
5870	02119			CB			INLET PLUG FEMALE T65
5880	04291			CB			SEALER FOR INLET PLUG
5890	08583			CB			STICKER COFFEE/TEA
5900	04289			CB			O-RING 26.57x3.53 EPDM
5910	54203			CB			HEATING ELEMENT
5920	12882			CB			BOTTOM PLATE CN10e INCL MAGNET
5930	05131			CB			FASTON TAB 6.3 WITH HOLE 4MM
5940	08427			CB			MAGNET 20x4.3x10 AXIAL
5950	12886			CB			GAUGE GLASS L=317
5960	04280			CB			GAUGE GLASS TULE TOP
5970	07954			CB			GAUGE.GL. PROTECTOR TOP PART
5980	12886			CB			GAUGE GLASS L=317
5990	04279			CB			GAUGE GLASS TULE UNDER
6000	07953			CB			TAP CAP
6010	99684			CB			TAP No-DRIP CPL CN
6020	04032			CB			UPPER ASSEMBLY 1/2 CPL
6030	04034			CB			SEAT CUP 1/2 SILICON
6040	54169			CB			-
6050	04290			CB			O-RING 17.04x3.53 EPDM
6060	07967			CB			GAUGE.GL. PROTECTOR UNDER PART
6070	02037						PILOTLAMP 230V ORANGE ROUND 13

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20

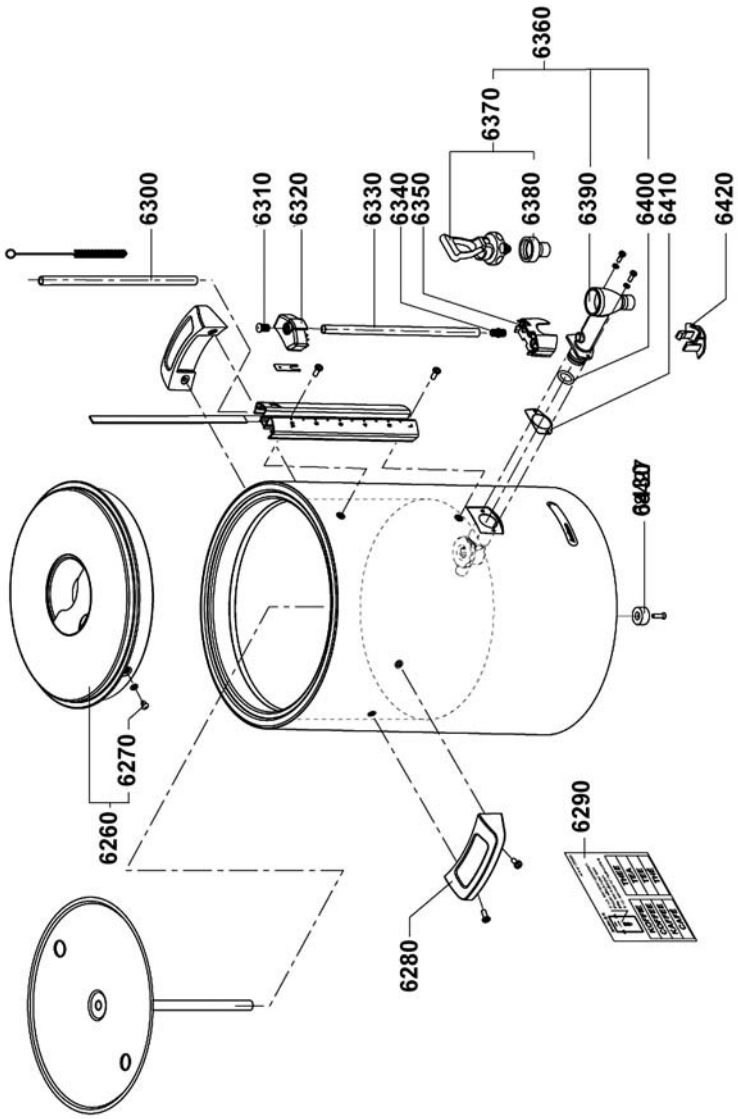

6180
6190
6120
6130
6140
6150
6160
6170
6200
6210
6220
6230
6240
6250
6090
6080
6110
6100

spcn5i_e.jpf

ID	Code	SN from	SN to	Model	Type	Accessory	Description
Module:Container CN5i							
6080	54734			CB			LID CE/CI 4/6
6090	08155			CB			SPREADNAIL BLACK
6100	07961			CB			HANDLE CN 5
6110	08583			CB			STICKER COFFEE/TEA
6120	12884			CB			GAUGE GLASS L=208
6130	04280			CB			GAUGE GLASS TULE TOP
6140	07954			CB			GAUGE.GL. PROTECTOR TOP PART
6150	12884			CB			GAUGE GLASS L=208
6160	04279			CB			GAUGE GLASS TULE UNDER
6170	07953			CB			TAP CAP
6180	99684			CB			TAP No-DRIP CPL CN
6190	04032			CB			UPPER ASSEMBLY 1/2 CPL
6200	04034			CB			SEAT CUP 1/2 SILICON
6210	54169			CB			-
6220	04290			CB			O-RING 17.04x3.53 EPDM
6230	04295			CB			SEAL TAP-CONTAINER CNi
6240	07967			CB			GAUGE.GL. PROTECTOR UNDER PART
6250	08427			CB			MAGNET 20x4.3x10 AXIAL

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20

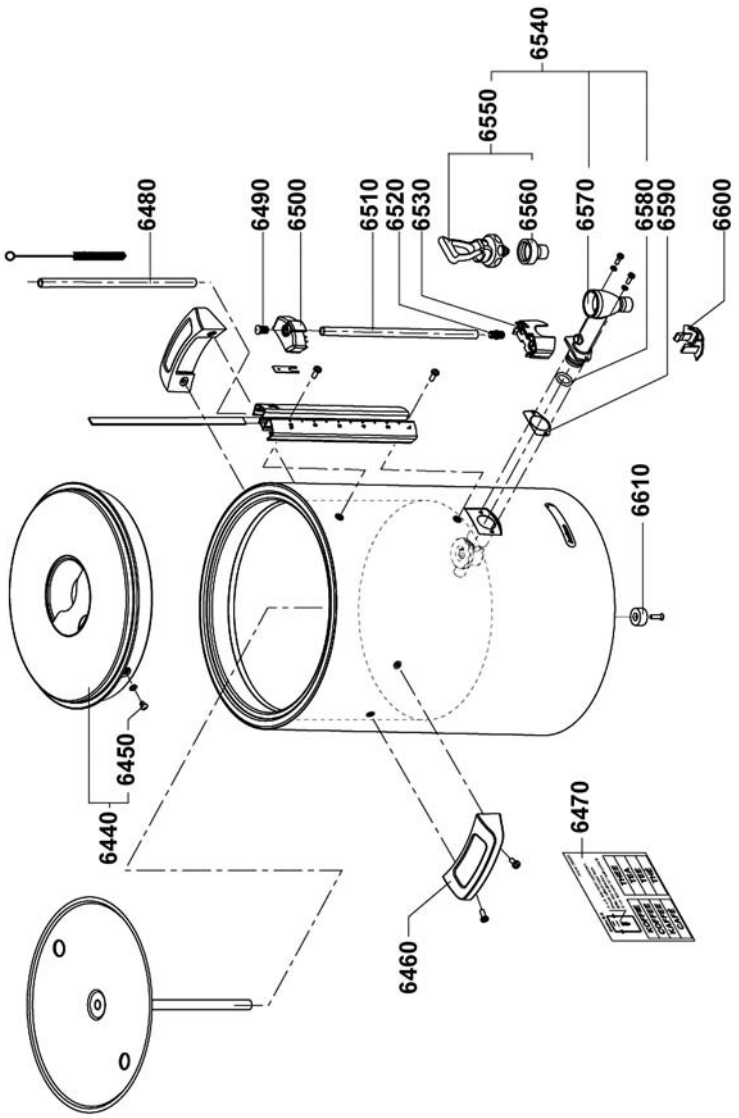


spcn10i_e.jpg

ID	Code	SN from	SN to	Model	Type	Accessory	Description
Module:Container CN10i							
6260	54736			CB			LID CE/CI 12/25
6270	08155			CB			SPREADNAIL BLACK
6280	07962			CB			HANDLE CN 10
6290	08583			CB			STICKER COFFEE/TEA
6300	12885			CB			GAUGE GLASS L=229
6310	04280			CB			GAUGE GLASS TULE TOP
6320	07954			CB			GAUGE.GL. PROTECTOR TOP PART
6330	12885			CB			GAUGE GLASS L=229
6340	04279			CB			GAUGE GLASS TULE UNDER
6350	07953			CB			TAP CAP
6360	99684			CB			TAP No-DRIP CPL CN
6370	04032			CB			UPPER ASSEMBLY 1/2 CPL
6380	04034			CB			SEAT CUP 1/2 SILICON
6390	54169			CB			-
6400	04290			CB			O-RING 17.04x3.53 EPDM
6410	04295			CB			SEAL TAP-CONTAINER CNi
6420	07967			CB			GAUGE.GL. PROTECTOR UNDER PART
6430	08427			CB			MAGNET 20x4.3x10 AXIAL

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20



spcn20i_e.jpg

ID	Code	SN from	SN to	Model	Type	Accessory	Description
Module:Container CN20i							
6440	54725			CB			LID CN20
6450	08155			CB			SPREADNAIL BLACK
6460	07963			CB			HANDLE CN 20
6470	08583			CB			STICKER COFFEE/TEA
6480	12886			CB			GAUGE GLASS L=317
6490	04280			CB			GAUGE GLASS TULE TOP
6500	07954			CB			GAUGE.GL. PROTECTOR TOP PART
6510	12886			CB			GAUGE GLASS L=317
6520	04279			CB			GAUGE GLASS TULE UNDER
6530	07953			CB			TAP CAP
6540	99684			CB			TAP No-DRIP CPL CN
6550	04032			CB			UPPER ASSEMBLY 1/2 CPL
6560	04034			CB			SEAT CUP 1/2 SILICON
6570	54169			CB			-
6580	04290			CB			O-RING 17.04x3.53 EPDM
6590	04295			CB			SEAL TAP-CONTAINER CNi
6600	07967			CB			GAUGE.GL. PROTECTOR UNDER PART
6610	08427			CB			MAGNET 20x4.3x10 AXIAL

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20

8. Technical specifications

Wiring diagram CB5

Wiring diagram CB 1x5 L

Wiring diagram CB 1x5 R

Wiring diagram CB 2x5

Wiring diagram CB 10

Wiring diagram CB 1x10 L

Wiring diagram CB 1x10 R

Wiring diagram CB 2x10

Wiring diagram CB 20

Wiring diagram CB 1x20 L

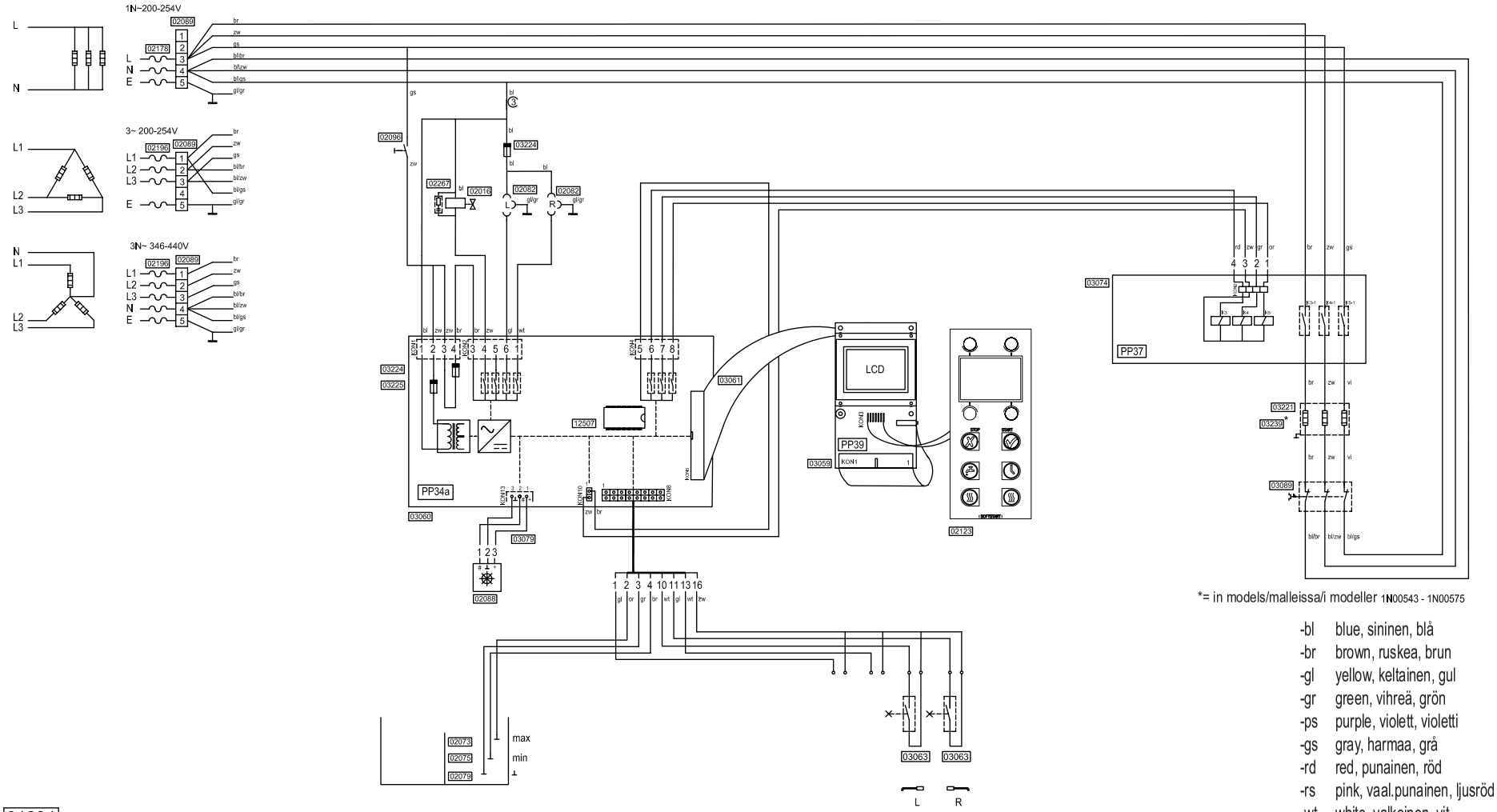
Wiring diagram CB 1x20 R

Wiring diagram CB 2x20

Installation drawing

Installation drawing

Wiring diagram CB5



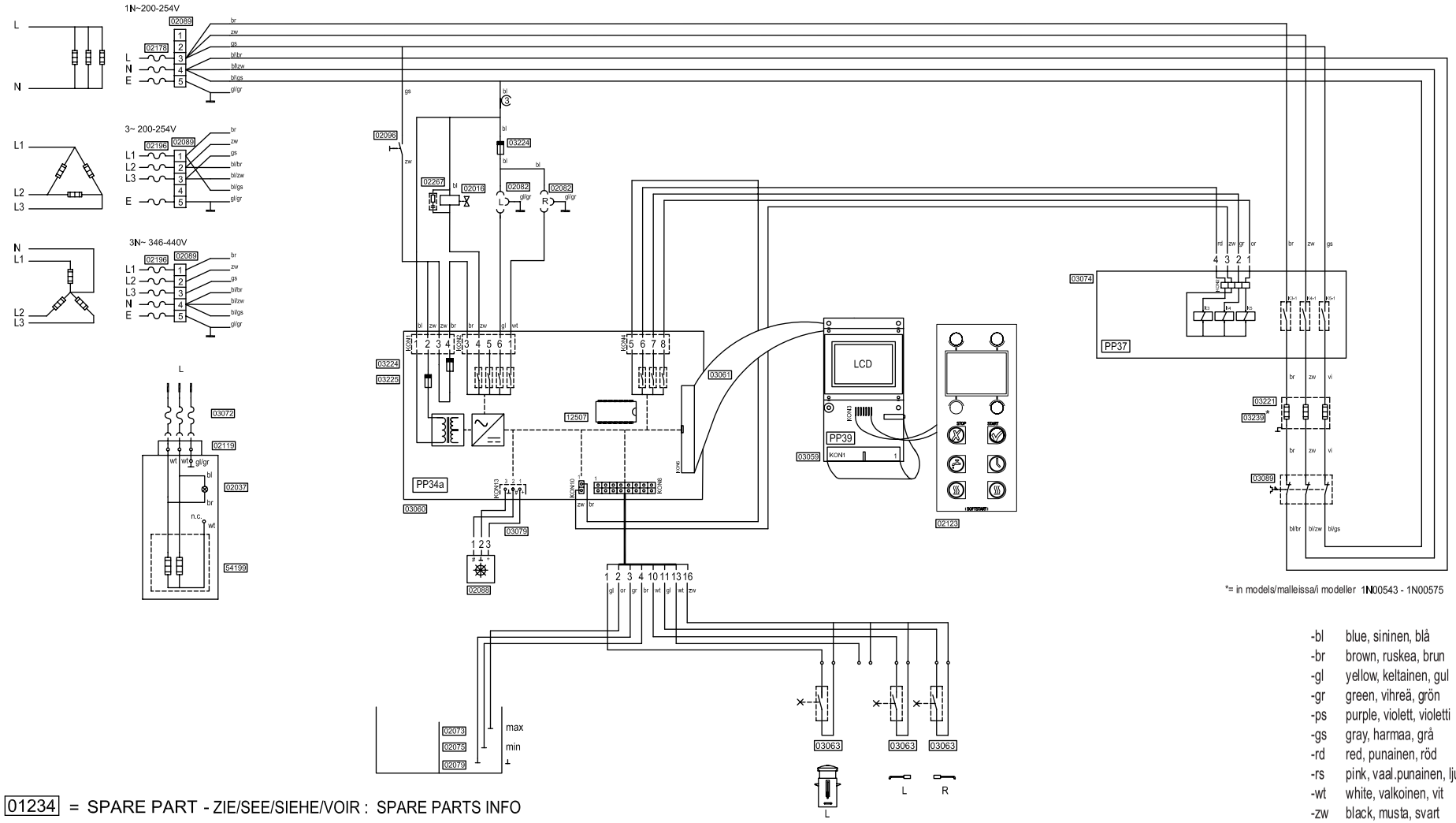
*= in models/malleissa/i modeller 1N00543 - 1N00575

-bl blue, sininen, blå
-br brown, ruskea, brun
-gl yellow, keltainen, gul
-gr green, vihreä, grön
-ps purple, violett, violetti
-gs gray, harmaa, grå
-rd red, punainen, röd
-rs pink, vaal.punainen, ljusröd
-wt white, valkoinen, vit
-zw black, musta, svart

01234 = SPARE PART - ZIE/SEE/SIEHE/VOIR : SPARE PARTS INFO

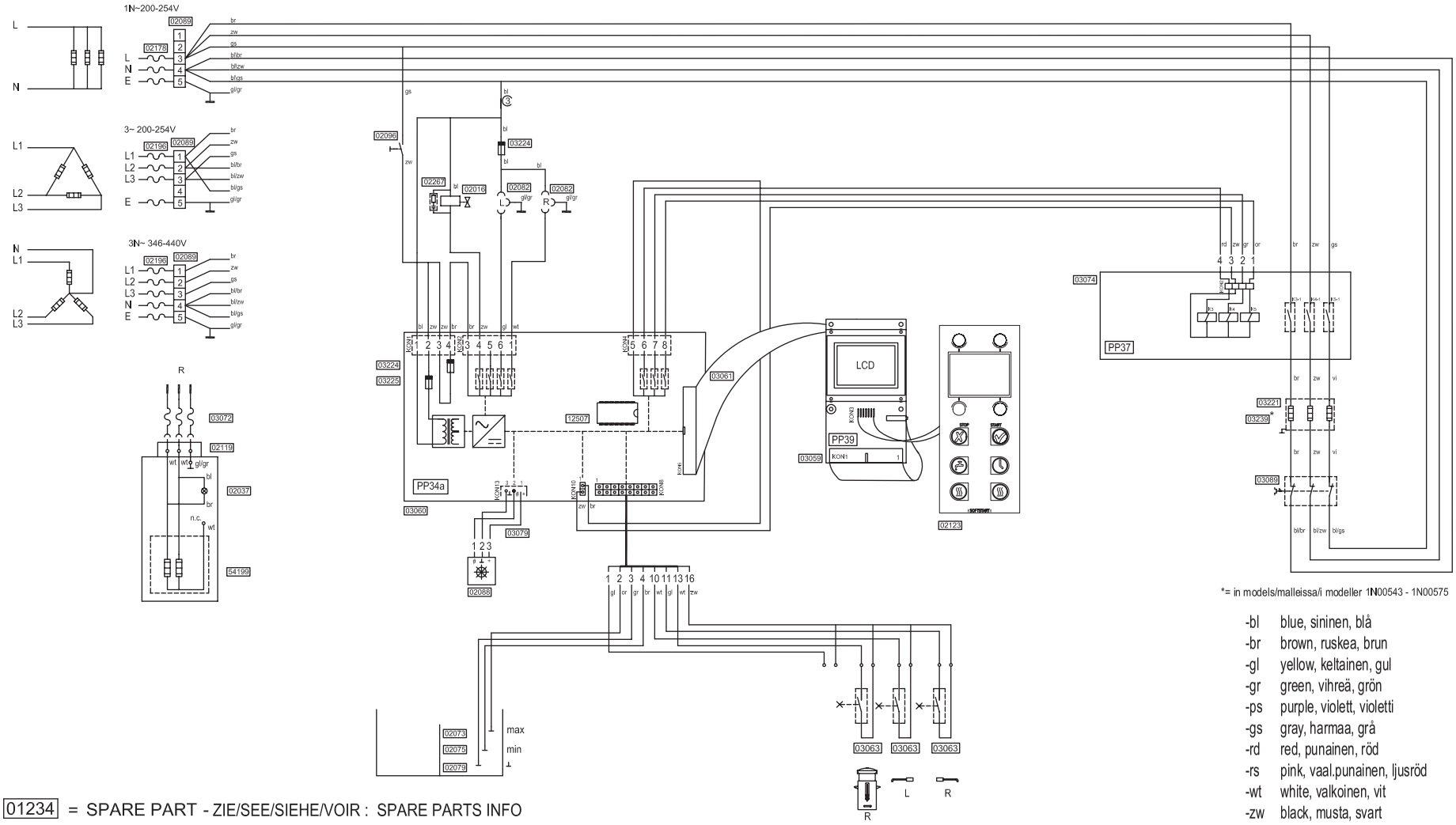
Type : CB 5	From mach.nr. : 1N00543	Page : 1/1	Drawer : J.S.
Artikel : 10630	Date : 02/04	Rev. : 0	Date : 07-11-03
Rated voltage: 1N~ 220-240V 50-60Hz 3200W	CIRCUIT DIAGRAM	Animo Assen Holland	Checked : Drawing nr. : S10630

Wiring diagram CB 1x5 L



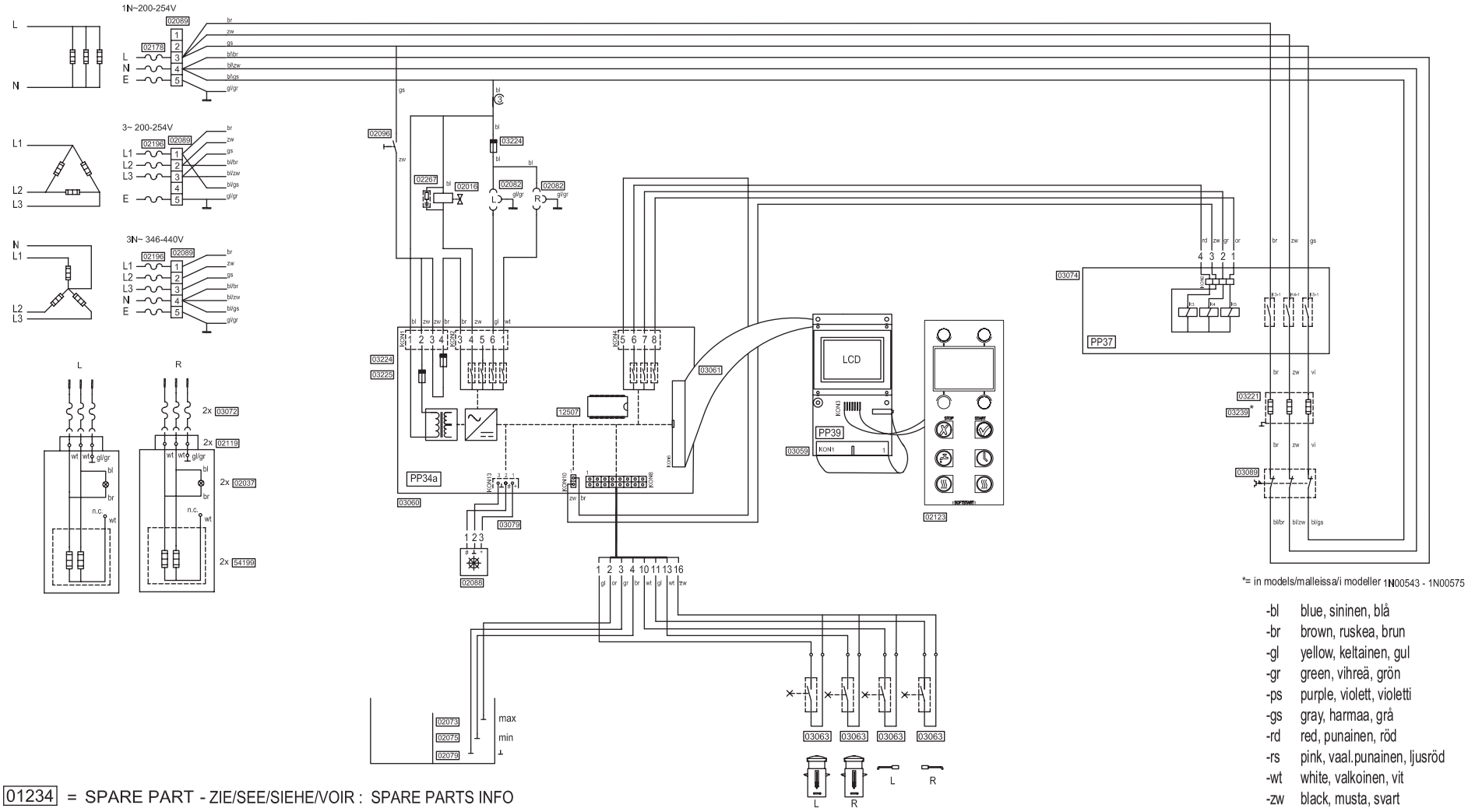
Type : CB 1X5 L	From mach.nr. : 1N00543	Page : 1/1	Drawer : J.S.
Artikel : 10605	Date : 02/04	Rev. : 0	Date : 07-11-03
			Checked :
Rated voltage: 1N~ 220-240V 50-60Hz 3200W	CIRCUIT DIAGRAM	Animo Assen Holland	Drawing nr. : S10605

Wiring diagram CB 1x5 R



Type : CB 1X5 R	From mach.nr. : 1N00543	Page : 1/1	Drawer : J.S.
Artikel : 10610	Date : 02/04	Rev. : 0	Date : 07-11-03
			Checked :
Rated voltage: 1N~ 220-240V 50-60Hz 3200W	CIRCUIT DIAGRAM	Animo Assen Holland	Drawing nr. : S10610

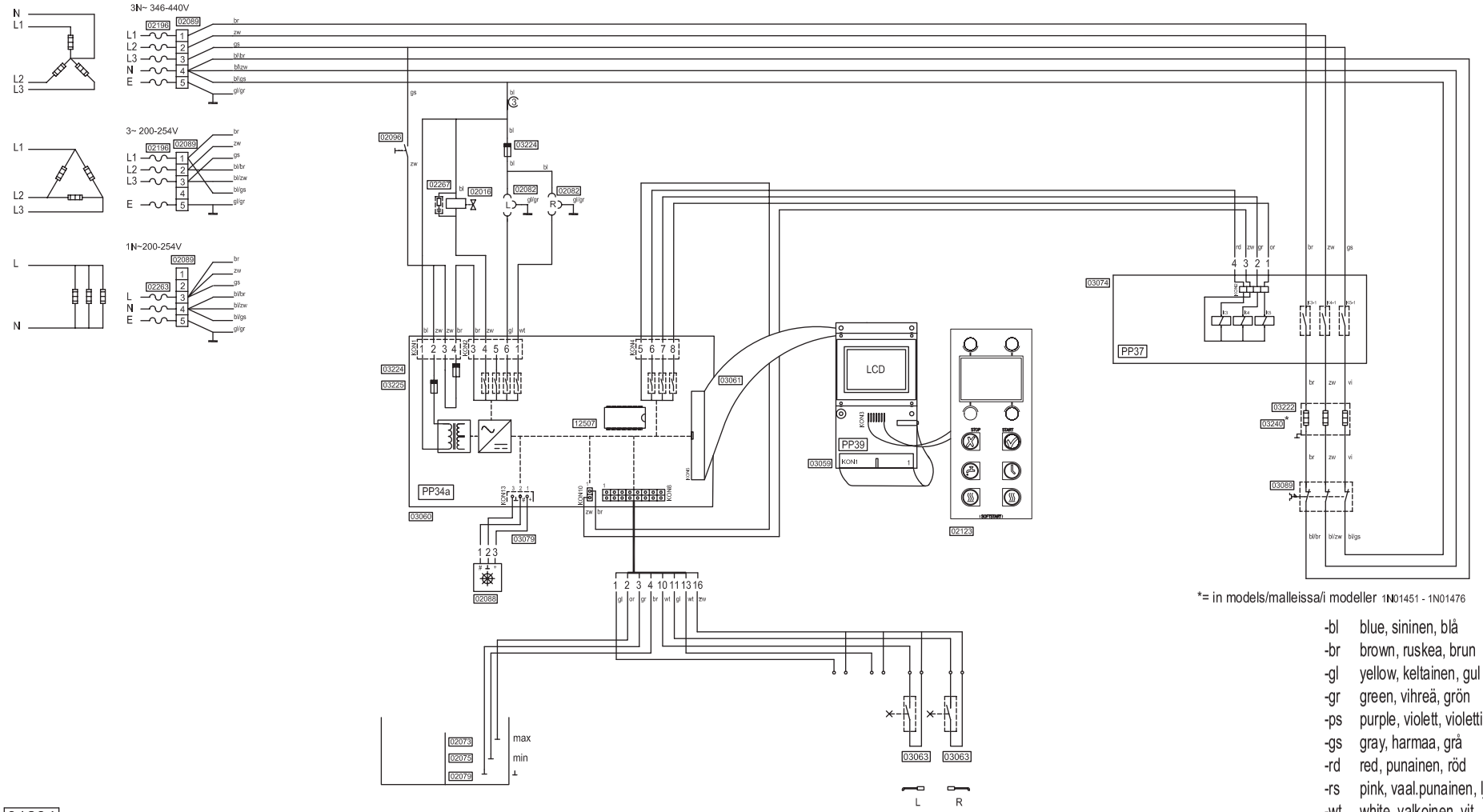
Wiring diagram CB 2x5



01234 = SPARE PART - ZIE/SEE/SIEHE/VOIR : SPARE PARTS INFO

Type : CB 2X5	From mach.nr. : 1N00543	Page : 1/1	Drawer : J.S.
Artikel : 10600	Date : 02/04	Rev. : 0	Date : 07-11-03
			Checked :
Rated voltage : 1N~ 220-240V 50-60Hz 3200W	CIRCUIT DIAGRAM	Animo Assen Holland	Drawing nr. : S10600

Wiring diagram CB 10



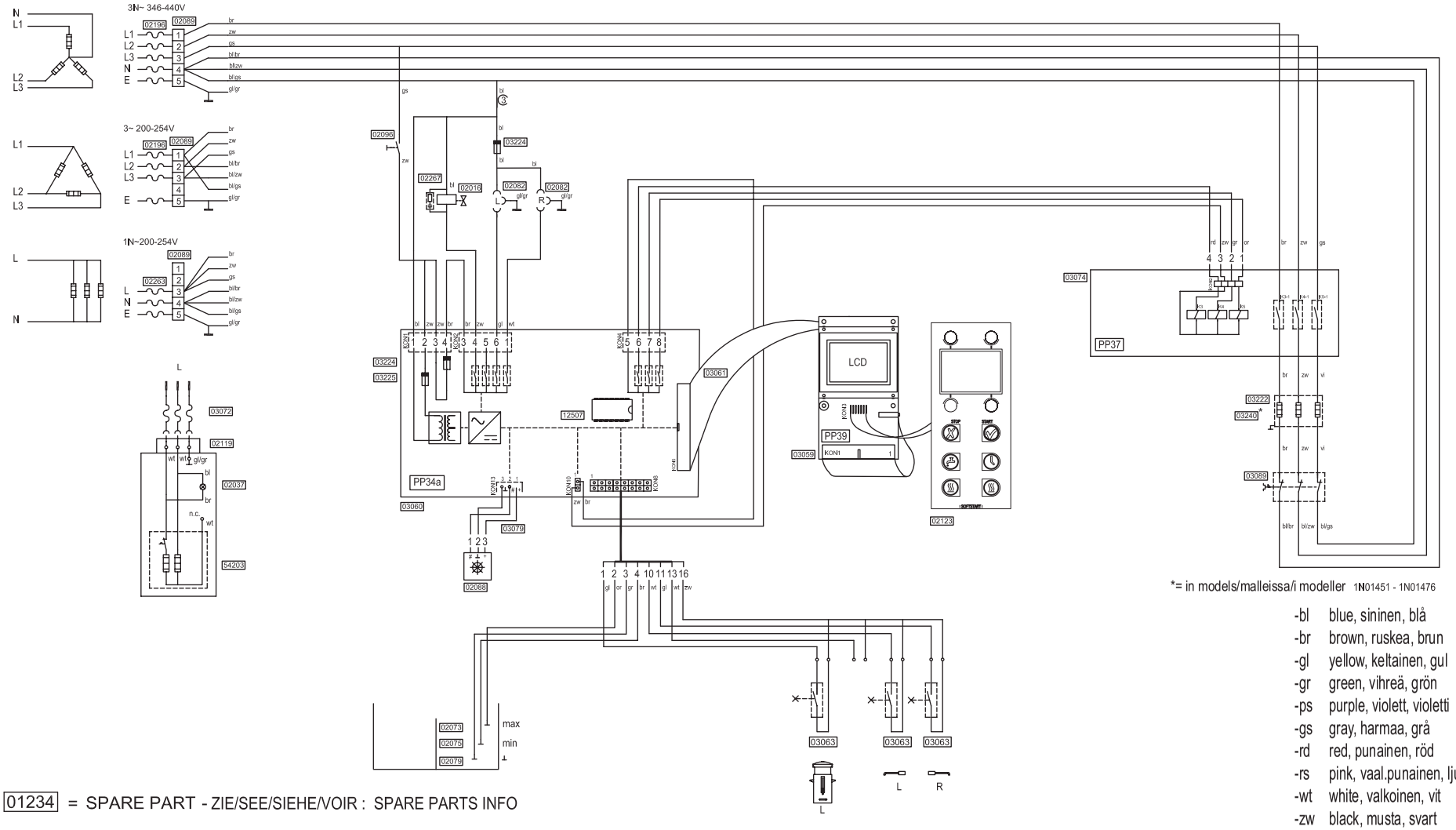
*= in models/malleissa/i modeller 1N01451 - 1N01476

-bl blue, sininen, blå
-br brown, ruskea, brun
-gl yellow, keltainen, gul
-gr green, vihreä, grön
-ps purple, violett, violetti
-gs gray, harmaa, grå
-rd red, punainen, röd
-rs pink, vaal.punainen, ljusröd
-wt white, valkoinen, vit
-zw black, musta, svart

01234 = SPARE PART - ZIE/SEE/SIEHE/VOIR : SPARE PARTS INFO

Type : CB 10	From mach.nr. : 1N01451	Page : 1/1	Drawer : J.S.
Artikel : 10670	Date : 02/04	Rev. : 0	Date : 07-11-03
			Checked :
Rated voltage: 3N~ 380-415V 50-60Hz 6200W	CIRCUIT DIAGRAM	Animo Assen Holland	Drawing nr. : S10670

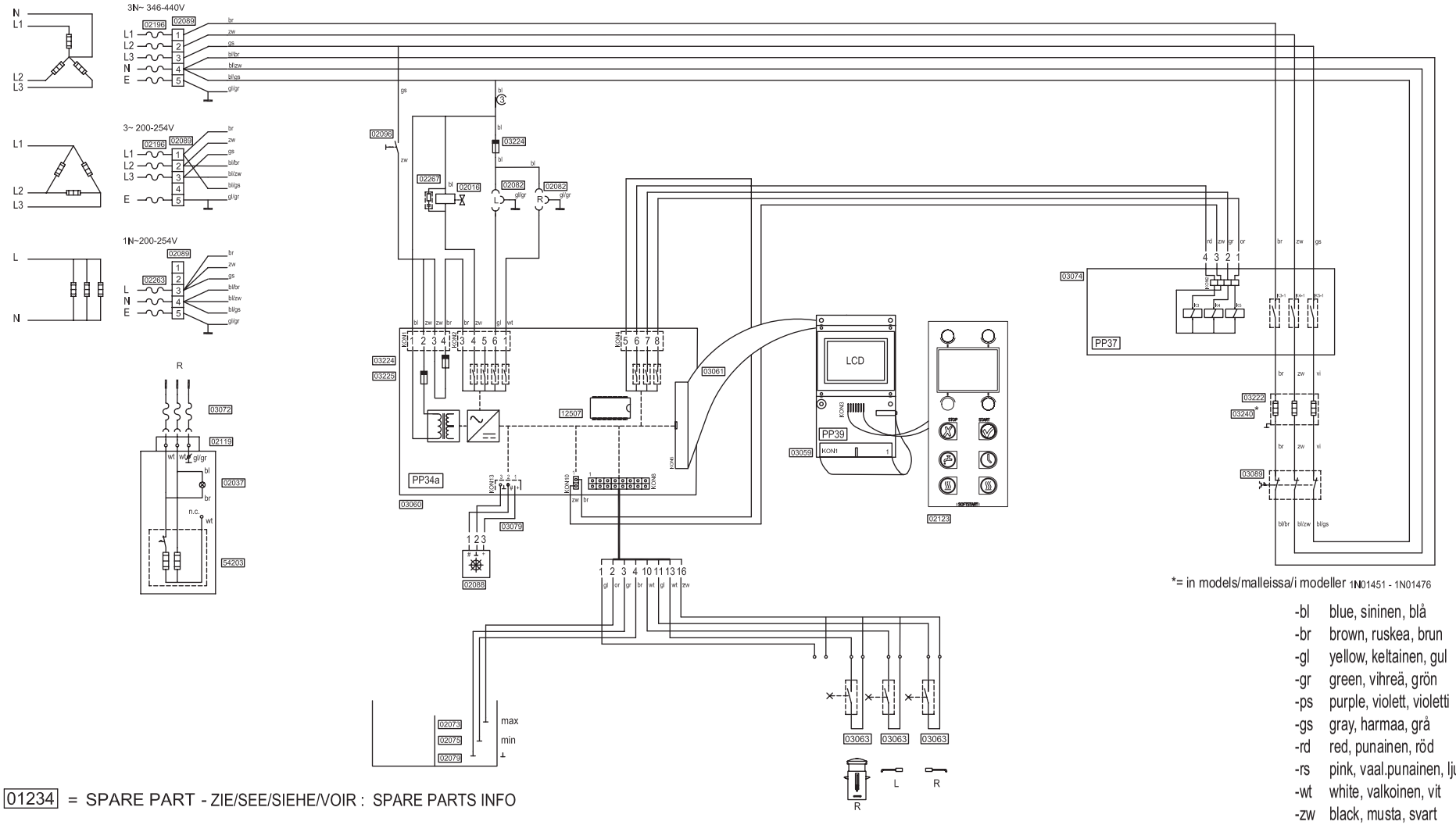
Wiring diagram CB 1x10 L



01234 = SPARE PART - ZIE/SEE/SIEHE/VOIR : SPARE PARTS INFO

Type : CB 1X10 L	From mach.nr. : 1N01451	Page : 1/1	Drawer : J.S.
Artikel : 10645	Date : 02/04	Rev. : 0	Date : 07-11-03
			Checked :
Rated voltage : 3N~ 380-415V 50-60Hz 6200W	CIRCUIT DIAGRAM	Animo Assen Holland	Drawing nr. : S10645

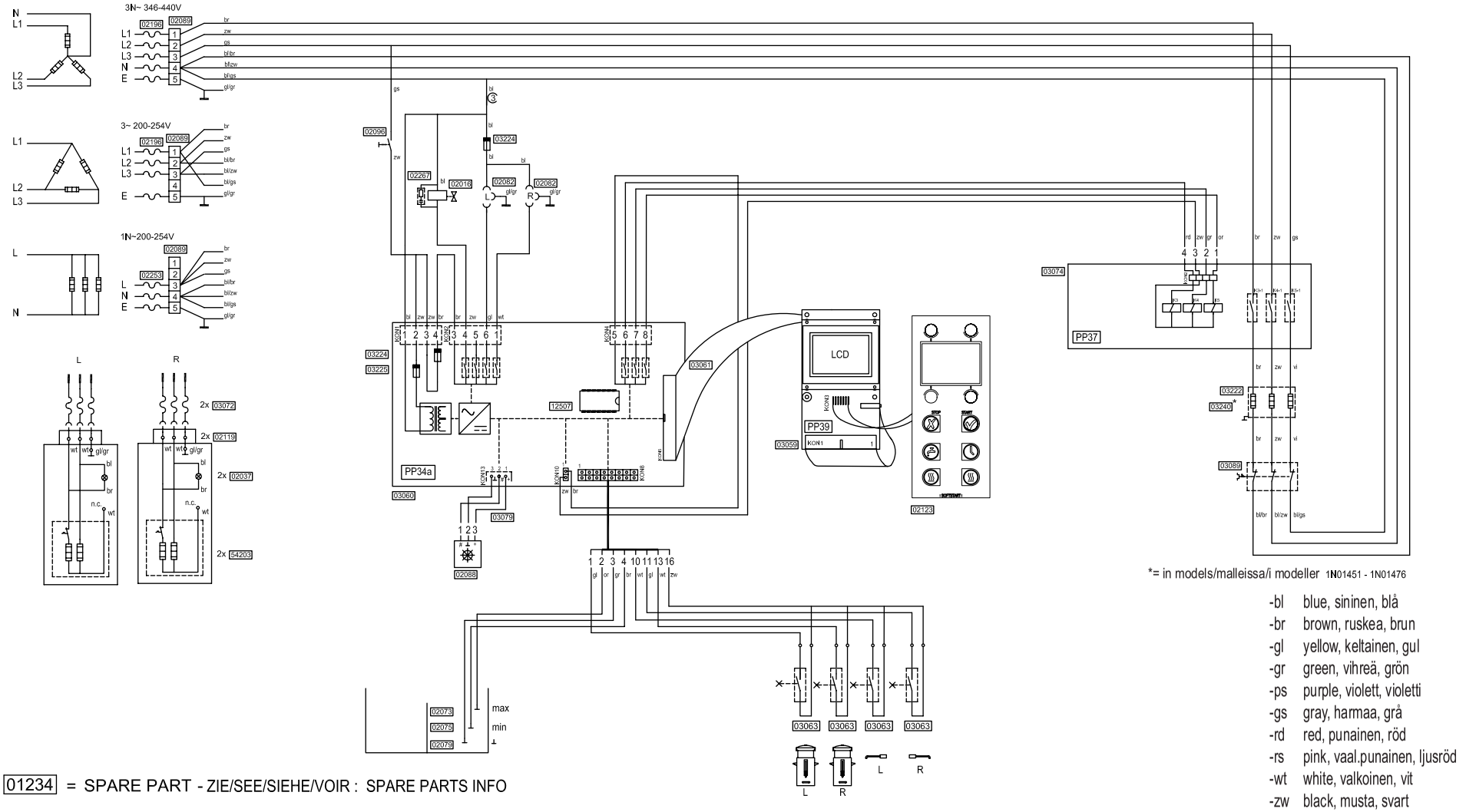
Wiring diagram CB 1x10 R



01234 = SPARE PART - ZIE/SEE/SIEHE/VOIR : SPARE PARTS INFO

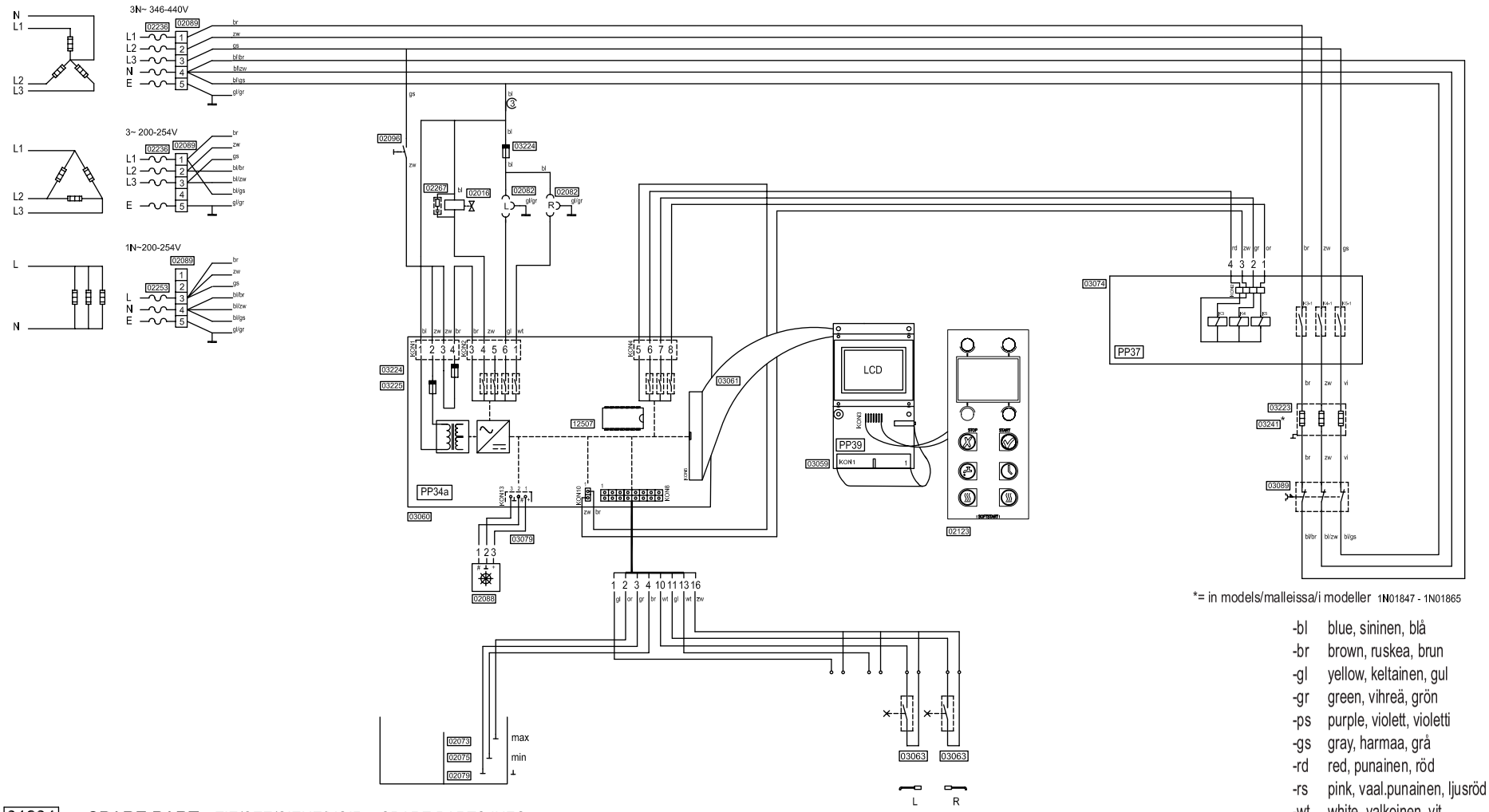
Type : CB 1X10 R	From mach.nr. : 1N01451	Page : 1/1	Drawer : J.S.
Artikel : 10650	Date : 02/04	Rev. : 0	Date : 07-11-03
			Checked :
Rated voltage : 3N~ 380-415V 50-60Hz 6200W	CIRCUIT DIAGRAM	Animo Assen Holland	Drawing nr. : S10650

Wiring diagram CB 2x10



Type : CB 2X10	From mach.nr. : 1N01451	Page : 1/1	Drawer : J.S.
Artikel : 10640	Date : 02/04	Rev. : 0	Date : 07-11-03
Rated voltage: 3N~ 380-415V 50-60Hz 6200W	CIRCUIT DIAGRAM	Animo Assen Holland	Checked : Drawing nr. : S10640

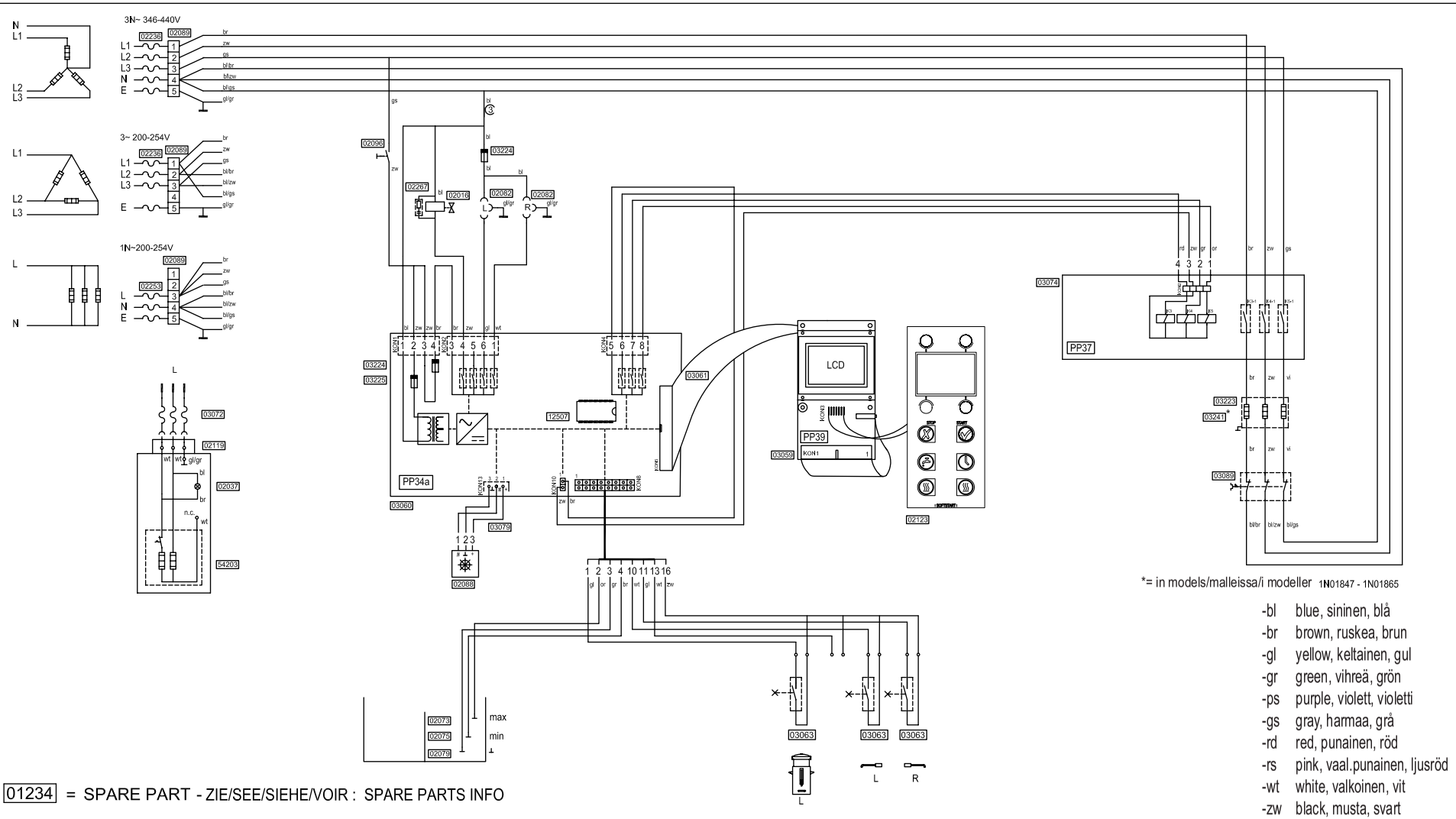
Wiring diagram CB 20



01234 = SPARE PART - ZIE/SEE/SIEHE/VOIR : SPARE PARTS INFO

Type : CB 20	From mach.nr. : 1N01847	Page : 1/1	Drawer : J.S.
Artikel : 10710	Date : 02/04	Rev. : 0	Date : 07-11-03
Rated voltage: 3N~ 380-415V 50-60Hz 9200W	CIRCUIT DIAGRAM	Animo Assen Holland	Checked : Drawing nr. : S10710

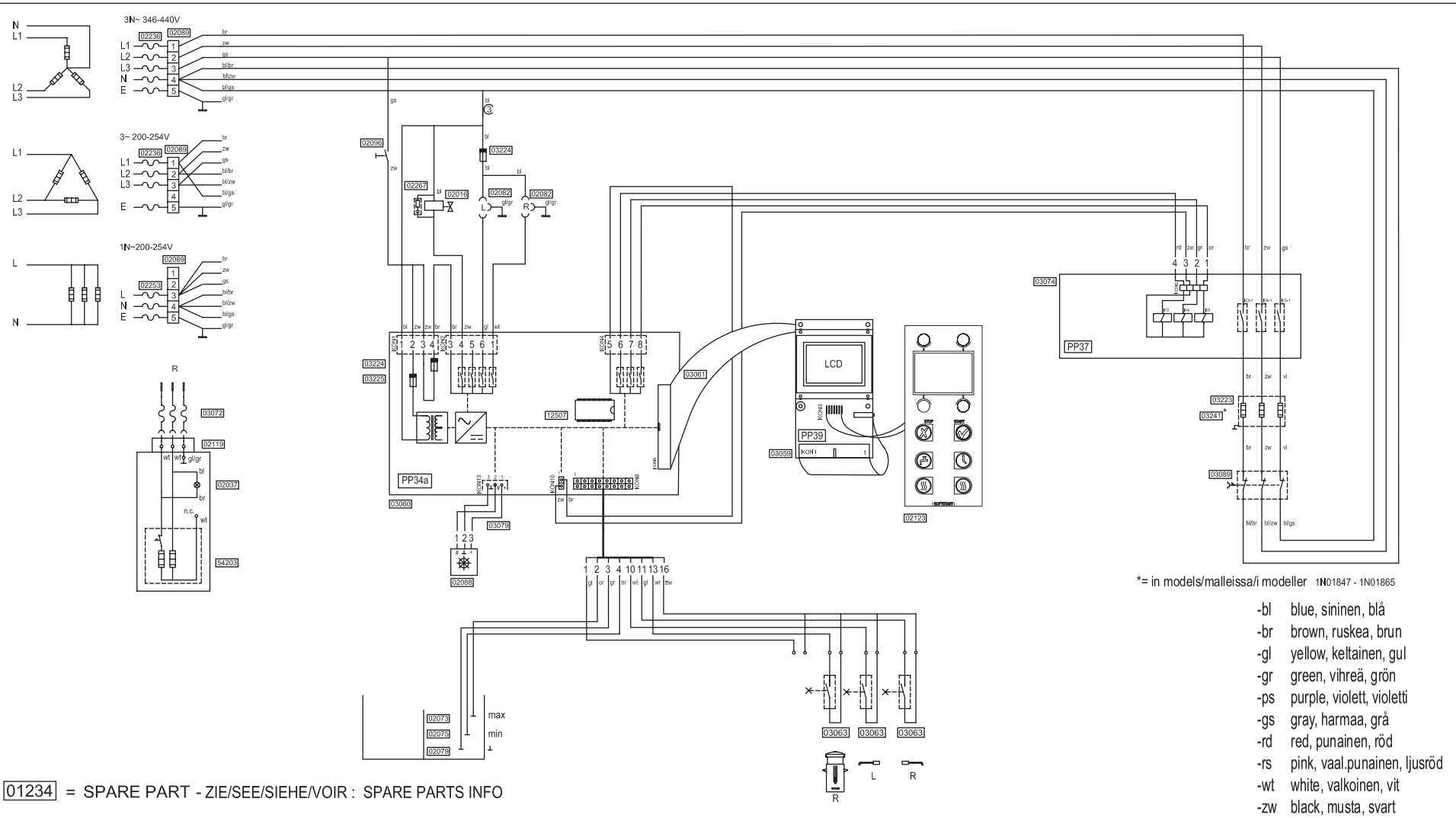
Wiring diagram CB 1x20 L



01234 = SPARE PART - ZIE/SEE/SIEHE/VOIR : SPARE PARTS INFO

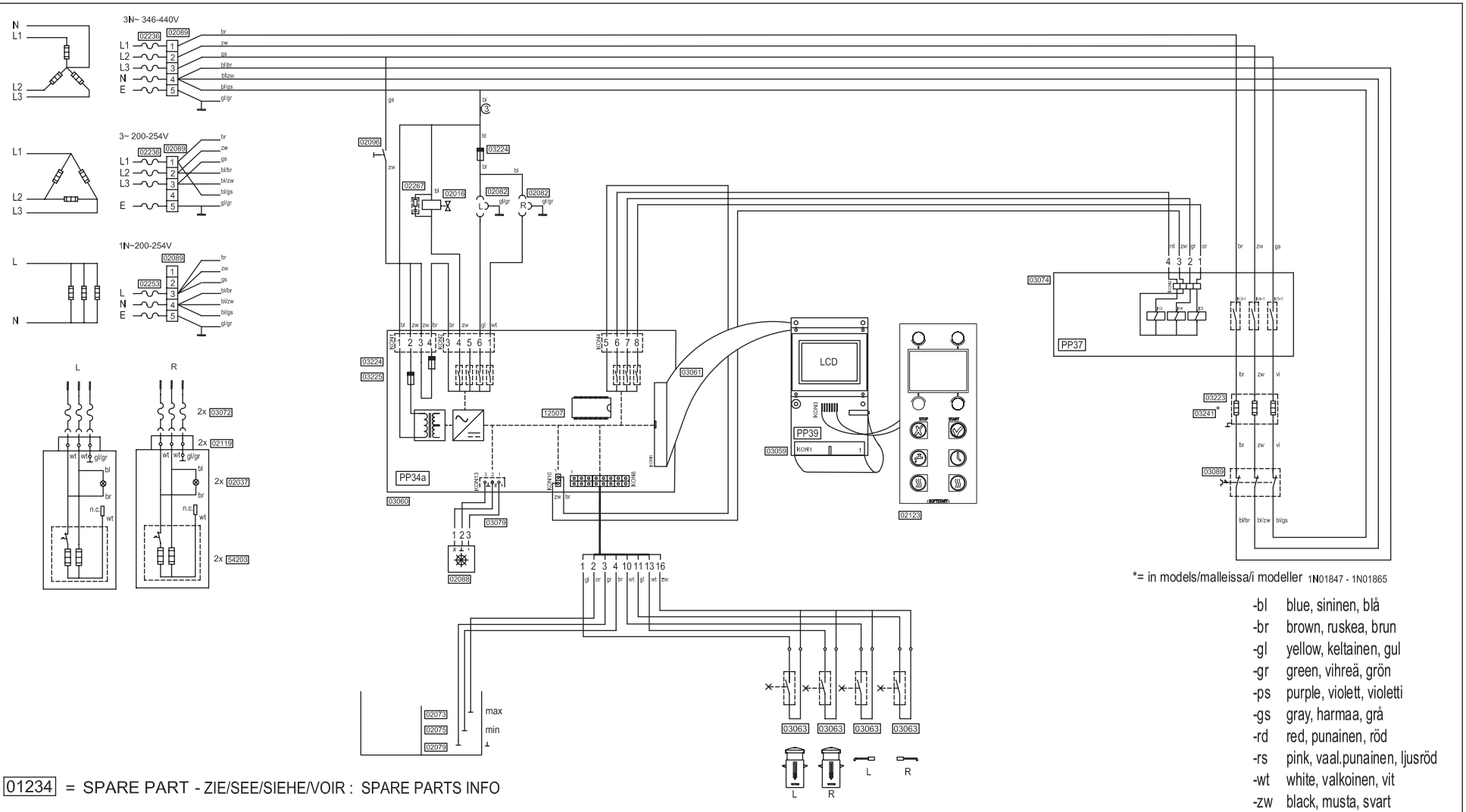
Type : CB 1X20 L	From mach.nr. : 1N01847	Page : 1/1	Drawer : J.S.
Artikel : 10685	Date : 02/04	Rev. : 0	Date : 07-11-03
Rated voltage: 3N~ 380-415V 50-60Hz 9200W	CIRCUIT DIAGRAM	Animo Assen Holland	Checked : Drawing nr. : S10685

Wiring diagram CB 1x20 R



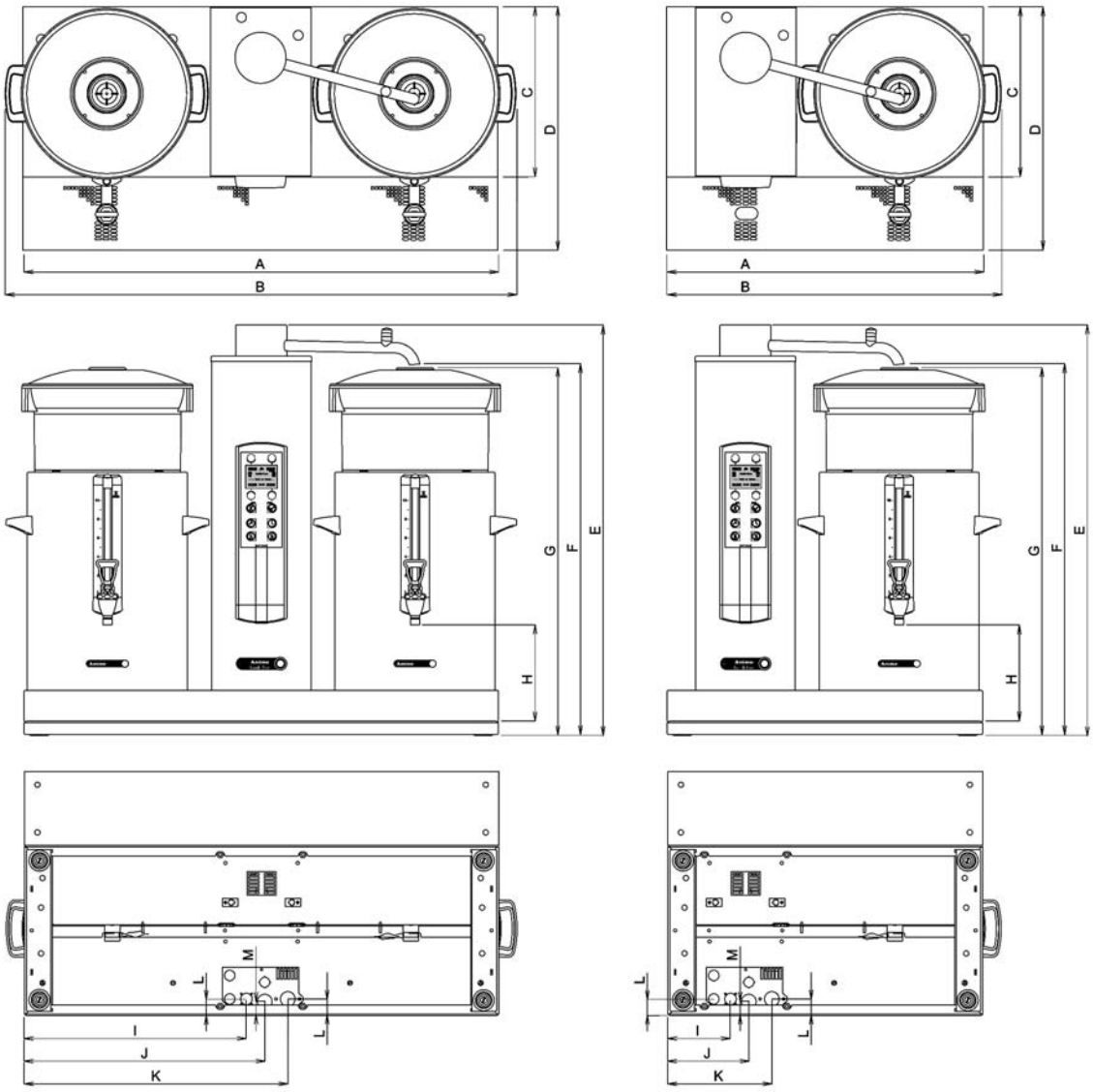
Type : CB 1X20 R	From mach.nr. : 1N01847	Page : 1/1	Drawer : J.S.
Artikel : 10690	Date : 02/04	Rev. : 0	Date : 07-11-03
Rated voltage: 3N~ 380-415V 50-60Hz 9200W	CIRCUIT DIAGRAM	Animo Assen Holland	Checked : Drawing nr. : S10690

Wiring diagram CB 2x20



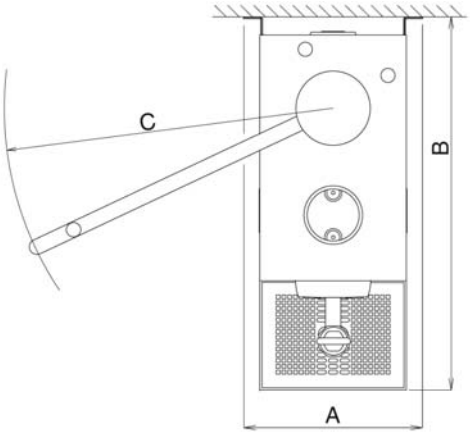
01234 = SPARE PART - ZIE/SEE/SIEHE/VOIR : SPARE PARTS INFO

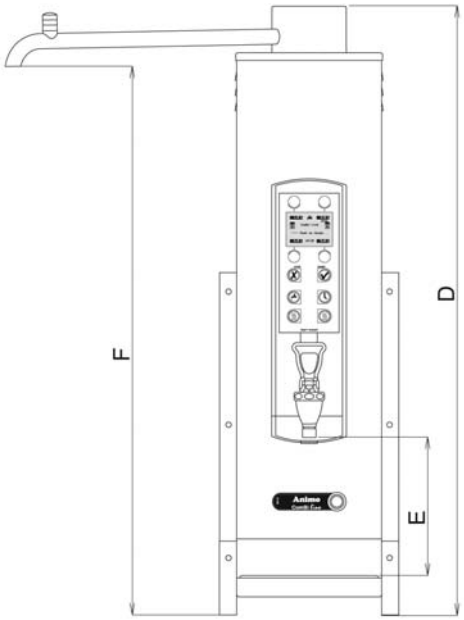
Type : CB 2X20	From mach.nr. : 1N01847	Page : 1/1	Drawer : J.S.
Artikel : 10680	Date : 02/04	Rev. : 0	Date : 07-11-03
Rated voltage: 3N~ 380-415V 50-60Hz 9200W	CIRCUIT DIAGRAM	Animo Assen Holland	Checked : Drawing nr. : S10680



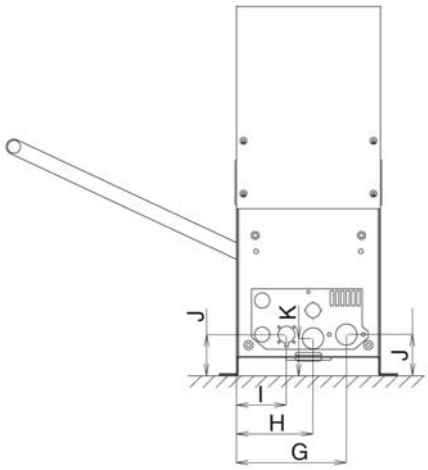
	CB 1x5 L	CB 1x10 L	CB 1x20 L	CB 1x5 R	CB 1x10 R	CB 1x20 R	CB 2x5	CB 2x10	CB 2x20
A =	530	599	653	530	599	653	770	907	1015
B =	554	634	693	554	634	693	818	977	1095
C =	325	325	360	325	325	360	325	325	360
D =	465	465	500	465	465	500	465	465	500
E =	692	784	886	692	784	886	692	784	886
F =	616	707	808	616	707	808	616	707	808
G =	611	702	803	611	702	803	611	702	803
H =	185	185	185	185	185	185	185	185	185
I =	356	425	479	116	116	116	356	425	479
J =	391	459	513	151	151	151	391	459	513
K =	435	504	558	195	195	195	435	504	558
L =	32	32	67	32	32	67	32	32	67
M =	27	27	62	27	27	62	27	27	62

Installation drawing





Afmetingen / Dimensions / Maße ComBi-line			
	CB 5W	CB 10W	CB 20W
A =	235	235	235
B =	490	490	490
C =	430	430	430
D =	707	800	901
E =	175	175	277
F =	631	723	825
G =	146	146	146
H =	102	102	102
I =	67	67	67
J =	54	54	54
K =	49	49	49



Installation drawing

Item	Model	Type	Acces-sory	Voltage	Specification
Measures	CB	5			235x435x707
Measures	CB	10			235x345x799
Measures	CB	20			235x345x901
Measures	CB	1x5R			530x465x695
Measures	CB	1x10R			599x465x785
Measures	CB	1x20R			653x500x890
Measures	CB	1x5L			530x465x695
Measures	CB	1x10L			599x465x785
Measures	CB	1x20L			653x500x890
Measures	CB	2x5			770x465x695
Measures	CB	2x10			907x465x785
Measures	CB	2x20			1015x500x890
Container volume litres	CB	5			5
Container volume litres	CB	10			10
Container volume litres	CB	20			20
Container volume litres	CB	1x5R			5
Container volume litres	CB	1x10R			10
Container volume litres	CB	1x20R			20
Container volume litres	CB	1x5L			5
Container volume litres	CB	1x10L			10
Container volume litres	CB	1x20L			20
Container volume litres	CB	2x5			5
Container volume litres	CB	2x10			10
Container volume litres	CB	2x20			20
Capacity l/h	CB	5			30
Capacity l/h	CB	10			60
Capacity l/h	CB	20			90
Capacity l/h	CB	1x5R			30
Capacity l/h	CB	1x10R			60
Capacity l/h	CB	1x20R			90
Capacity l/h	CB	1x5L			30
Capacity l/h	CB	1x10L			60
Capacity l/h	CB	1x20L			90
Capacity l/h	CB	2x5			30
Capacity l/h	CB	2x10			60
Capacity l/h	CB	2x20			90
Capacity cups/h	CB	5			240
Capacity cups/h	CB	10			480
Capacity cups/h	CB	20			720
Capacity cups/h	CB	1x5R			240
Capacity cups/h	CB	1x10R			480
Capacity cups/h	CB	1x20R			720
Capacity cups/h	CB	1x5L			240

Item	Model	Type	Accessory	Voltage	Specification
Capacity cups/h	CB	1x10L			480
Capacity cups/h	CB	1x20L			720
Capacity cups/h	CB	2x5			240
Capacity cups/h	CB	2x10			480
Capacity cups/h	CB	2x20			720
Electric connection	CB	5			230V 1~3,2 kW 16A
Electric connection	CB	10			400V 3N~6,2 kW 10A
Electric connection	CB	20			400V 3N~9,2 kW 16A
Electric connection	CB	1x5R			230V 1~3,2 kW 16A
Electric connection	CB	1x10R			400V 3N~6,2 kW 10A
Electric connection	CB	1x20R			400V 3N~9,2 kW 16A
Electric connection	CB	1x5L			230V 1~3,2 kW 16A
Electric connection	CB	1x10L			400V 3N~6,2 kW 10A
Electric connection	CB	1x20L			400V 3N~9,2 kW 16A
Electric connection	CB	2x5			230V 1~3,2 kW 16A
Electric connection	CB	2x10			400V 3N~6,2 kW 10A
Electric connection	CB	2x20			400V 3N~9,2 kW 16A
Waterconnection					3/4"

CB=CB

5=5, 1x5R=1x5R, 1x5L=1x5L, 2x5=2x5, 10=10, 1x10R=1x10R, 1x10L=1x10L, 2x10=2x10, 20=20, 1x20R=1x20R, 1x20L=1x20L, 2x20=2x20

CE

EG-Conformiteitsverklaring
EC-declaration of conformity
EG-Konformitätserklärung
Certificat de conformité CE

De firma
The company
Die Firma
La société

Animo B.V.
P.O.Box 71
NL - 9400 AB Assen

verklaart, dat het produkt
certifies that the product
erklärt, daß das Produkt
certifie que le produit

Koffiezet-installatie
Coffeemaker
Kaffeemaschine
Machine à café

met de type aanduiding
with the type destignation
mit der Typbezeichnung
avec la désignation

CB 5, CB 10, CB 20
CB 5W, CB 10W, CB 20W

deze verklaring verwijst in overeenstemming te zijn, met de volgende EG-richtlijnen:
this declaration refers to corresponds with the following EC-directives:
auf das sich diese Erklärung bezieht, mit den nachfolgenden EG-Richtlinien übereinstimmt:
objet de cette declaration, est conforme aux directives européennes ci-dessous:

89/392/CEE
89/336/CEE
73/23/CEE

gemodificeerd door
modified by
in der Fassung
modifié par la

93/68/CEE '94

Toegepaste normen
Applied standards
Angewandte Normen
Normes appliquées

EN 60 335
EN 55 014; EN 61000-3-2; EN 61000-3-3

Assen, 2 februari 2004
Assen, 2. February 2004
Assen, den 2. Februar 2004
Assen, le 2 Février 2004

Directie
General manager
Geschäftsführer
Directeur general

EG-Conformiteitsverklaring
EC-declaration of conformity
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Koffiezet-installatie
Coffeemaker
Kaffeemaschine
Machine à café

met de type aanduiding
with the type destignation
mit der Typbezeichnung
avec la désignation

CB 2x5, CB 2x10, CB 2x20
CB 2x5W, CB 2x10W, CB 2x20W
CB 1x5 L/R, CB 1x10 L/R, CB 1x20 L/R
CB 1x5W L/R, CB 1x10W L/R, CB 1x20W L/R

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verklaart, dat het produkt
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Koffiecontainer
Coffeecontainer
Kaffeecontainer
Conteneurs à café

met de type aanduiding
with the type destignation
mit der Typbezeichnung
avec la désignation

CNe 5, 10, 20

deze verklaring verwijst in overeenstemming te zijn, met de volgende EG-richtlijnen:
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auf das sich diese Erklärung bezieht, mit den nachfolgenden EG-Richtlinien übereinstimmt:
objet de cette declaration, est conforme aux directives européennes ci-dessous:

89/392/CEE
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Toegepaste normen
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EN 60 335
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Assen, 2. February 2004
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General manager
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Directeur general

Conformiteitsverklaring - hygiënisch ontwerp
declaration of conformity - hygienic design
Konformitätserklärung - hygienischer Entwurf
Certificat de conformité - hygiène

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verklaart, dat het produkt
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certifie que le produit

Koffiecontainer
Coffee container
Kaffeecontainer
Conteneurs à café

met de type aanduiding
with the type destignation
mit der Typbezeichnung
avec la désignation

CNi 5, 10, 20

Het toepassings gebied van de container beslaat:
The application area of the container covers:
Das Anwendungsgebiet der Container umfaßt:
Les conteneurs ont spécialement été conçus pour:

De opslag en distributie van warme en koude dranken op een constante temperatuur voor een bepaalde periode
The storage and distribution of hot and cold drinks at a constant temperature for a period of time
Das Aufbewahren und die Distribution von warmen und kalten Getränken auf einer konstanten Temperatur für eine bestimmte Zeit
la conservation et distribution de boissons chaudes et froides, tout en les maintenant à température constante pendant un moment determiné

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this declaration refers to corresponds with the following EC-directives:
auf das sich diese Erklärung bezieht, mit den nachfolgenden EG-Richtlinien übereinstimmt:
objet de cette declaration, la conformité aux directives européennes ci-dessous:

93/43/CEE

Toegepaste normen en publicaties
Applied standards and publications
Angewandte Normen und Publikationen
Normes appliquées et publications

NEN-EN 1672-2
Publications of the European Hygienic Equipment Design Group (EHEDG)
The principle of Hazard Analysis Critical Control Points (HACCP)
IP 65 - EN 60529 / 1992-03 (IEC 529 : 1989)

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